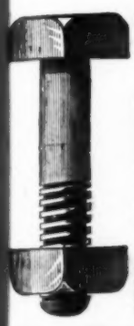
The American Artisan

THE HARDWARE RECORD

Volume 43—No. 17. CHICAGO, APRIL 26, 1902. $2.00 Per Year.



Columbus Bolt Works,

Columbus, O.

Bolts,
Nuts,
Washers,
Turn Buckles,
Bridge and Roof Rods
and
Bolts

ALL KINDS OF CARRIAGE FORGINGS. ON APPLICATION. CATALOGUE

"Sampson Brand" **PURE ASPHALT ROOFING**

Never Dries Out or Cracks. Planet Brand Tarred Ready Roofing, Slaters' Felt, Building Papers, Roofing Cements, Paints, Etc.

Write us for Prices **J. L. PERKINS & CO.,** 241 Lake St. CHICAGO

We make a full line of

Stove Bolts, Stove Rods,
Machine Screws,
Pointed Pins,
Threaded Wires,
Rivets,
Special Bolts.
Mica Bolts,
Cold Pressed Nuts.

Atlas Bolt & Screw Co.
CLEVELAND, O.

Registers are very low in price now

You can make no mistake in placing your stock orders NOW.
It is not too early for a bargain.

Independent Register Co.
158 Champlain, Cleveland, O.

A UNIVERSAL REMEDY FOR

LEAKY ROOFS.

The valuable qualities of a good roofing cement are firm adhesiveness and elasticity. These qualities the

AMERICAN SEAL BUILDERS' AND ROOFERS'

ELASTIC OIL CEMENT

possesses. It will adhere firmly to Slate or Metal and will not crack or crumble. It is especially recommended for repairing leaks around chimneys, dormer windows, skylights, scuttles, firewalls and any place that requires fixing on a roof, either Slate, Tin or Shingle.

This Cement will answer to repair **a roof** when **Solder** can not be used

MANUFACTURED BY

Wm. Connors Paint Mfg. Co.
TROY, N. Y.
WESTERN AGENTS—J. L. PERKINS & CO.,
241 Lake Street, - - - CHICAGO, ILL.
STOCKHOFF SUPPLY CO., ST. LOUIS, MO.

Trying to do business without advertising is like winking at a girl in the dark; you know what you are doing but nobody else does.

BRADLEY SHELF BRACKETS.
Strong, Light and All Right.
ATLAS MFG. CO., New Haven, Ct.

SAMSON SPOT CORD

Also Massachusetts and Phœnix Brands of Sash Cord.
Samson Cordage Works, Boston, Mass.

Black Diamond Files and Rasps.

PERFECT—ALWAYS

Twelve Medals Awarded

At International Expositions.

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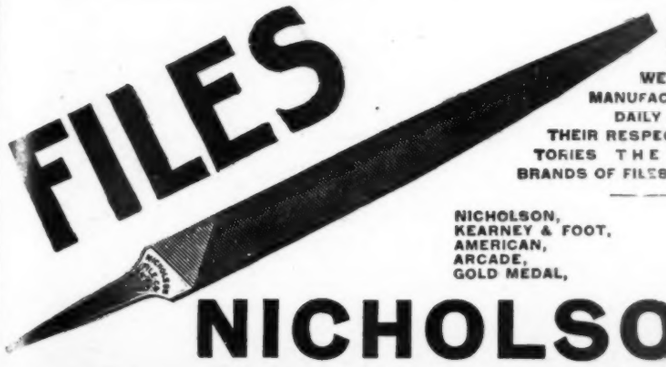


WE MANUFACTURE DAILY AT THEIR RESPECTIVE FACTORIES THE FOLLOWING BRANDS OF FILES AND RASPS:

NICHOLSON,
KEARNEY & FOOT,
AMERICAN,
ARCADE,
GOLD MEDAL,

GREAT WESTERN,
J. B. SMITH,
McCLELLAN,
EAGLE,
"X. F."

NICHOLSON FILE CO.
Providence, R. I., U. S. A.

BOILERS AND RADIATORS

A Postal Card from you will bring valuable, complete information in regard to the best, most comprehensive, strictly modern line of these goods.

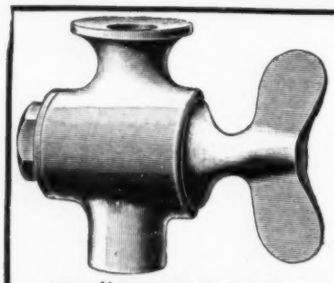
WRITE US TODAY.
New York, Boston, Philadelphia, St. Louis, Buffalo, Minneapolis, Denver, Detroit, London.

AMERICAN RADIATOR COMPANY
Lake and Dearborn Sts., CHICAGO.

"Defender" (Steel) Boiler

For Steam and Hot Water Heating Surface Burner. For Soft and Hard Coal. Portable and Brickset.

Kewanee Boiler Company, Kewanee, Ill.
167 E. LAKE ST., CHICAGO.

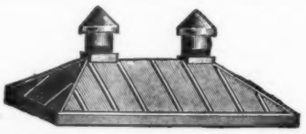


The "OMECA," 2-3 Size.
To attach to bottom of can.

BEER,
MILK CAN,
OIL CAN,
CREAM SEPARATOR

FAUCETS.

Various Sizes and Styles.
MANUFACTURED BY
CLARK NOVELTY CO.,
ROCHESTER, N. Y.
Also Mfrs. of The CLARK Kerosene Oil System for Heating Soldering Coppers.



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METALLIC SKYLIGHTS

Are known in every State. Have stood the test for years. Are made in 10 styles and 500 sizes. Complete Skylight, Cornice and Finial Catalogue mailed free.

J. H. JONES, Mfr.,
Lock Box 33. STREATOR, ILL.

"Eagle" Brand Copper Rivets and Burrs.
STANDARD FOR QUALITY. (Lake Superior Copper.)
—MANUFACTURED BY—
THE PLUME & ATWOOD MFG. CO.,
29 Murray St., NEW YORK. 196 Lake St., CHICAGO, ILL.

The Kelsey Warm Air Generator

A Heating Apparatus with from nine to seventeen vertical corrugated cast-iron flues or sections forming the fire cylinder and combustion chamber, and having 65 square feet of heating surfaces to each square foot of grate surface.

Warms thoroughly and to proper temperature, great volumes of air by passing it through the flues and conveys it to every part of the building.

Provides heat and most perfect ventilation for Residences, Churches and School Buildings.

Accomplishes results which lead to further sales at satisfactory profits for the dealer.

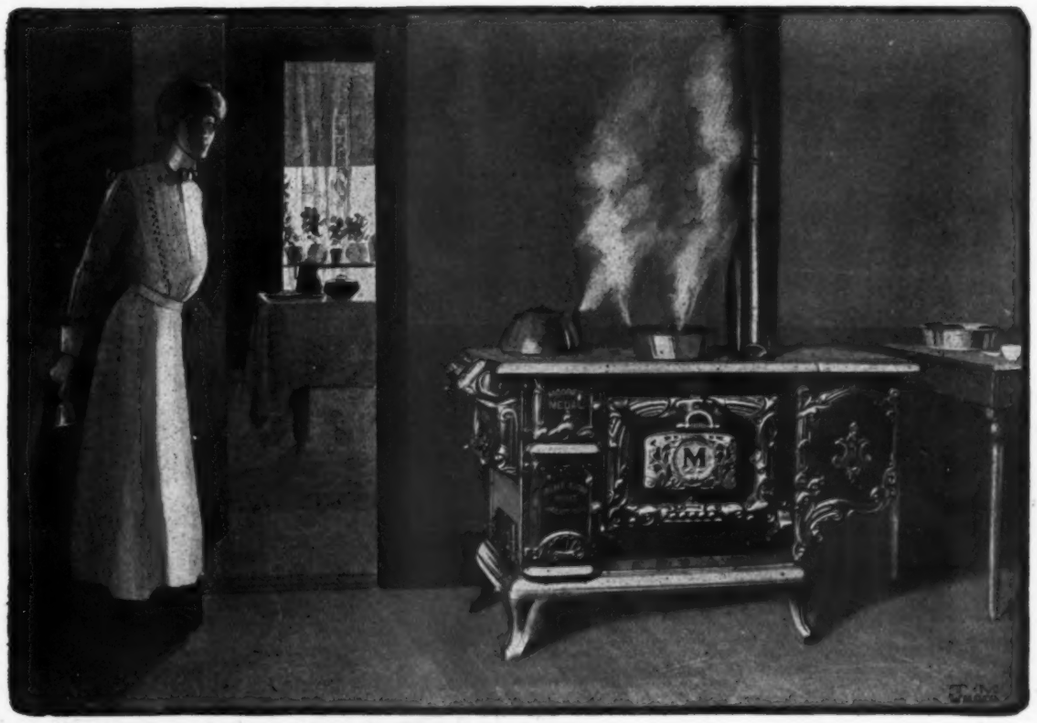
SEND FOR 164-PAGE BOOK OF OPINIONS.
20,000 IN USE.

KELSEY HEATING CO.
....MAKERS....
SYRACUSE, N. Y.

New York Office
After May 1st
156 Fifth Avenue
L. V. SANFORD, Manager

COOK & VAN EVERA CO.
38 E. Lake St.
CHICAGO
WESTERN SELLING AGENTS

Moore's QUICK OVEN Stoves



HUSTLES HIM TO WASH HIS FACE

Mr. B. J. Norby of Cassville, Mo., writes as follows:

> "One of the Steel Stoves recently ordered was for Editor Charles Ray. He is very much pleased with it. Mrs. Ray thinks that there is no other worth having. She says it bakes so quickly that her husband hardly has time to wash his face before breakfast is ready."

The kind of satisfaction shown in this letter is the kind that counts big for future business. It reaches the neighbors and friends, and in the end makes many sales.

MOORE'S QUICK OVEN STEEL STOVES give this kind of satisfaction in abundance. That's what makes them

"The Easy Line to Sell."

Joliet Stove Works, Joliet, Illinois

HOLBROOK, MERRILL & STETSON, San Francisco, Sacramento, Los Angeles.

WHITE'S
Stoves and Ranges
ARE THE FUEL-SAVING LINE.

The Best Constructions ever offered for the money.

Have You Tried Us?

We Use the Best Soft Coal Grate ever made. It is patented, and used exclusively by us.

Why Can't We Do Business With You?

Our Special Low Net Price List on our entire line of Steel and Cast Ranges, Cooks and Heaters can be had for the asking. Don't overlook this.

Thomas White Stove Co.

QUINCY, ILL.

The

GEM-MILLER STEEL-PLATE RANGE

Which we introduce as a High-Grade Medium-Priced Cooking Apparatus is made only by

THE WM. MILLER RANGE & FURNACE CO.

CINCINNATI, OHIO.

Write for Catalogue and Prices.

BRAND STOVE CO.

We make largest line of cooking and heating apparatus, cast cooks, cast ranges, steel cooks, steel ranges, hotel outfits, heating stoves, furnaces hot water and steam heaters. Send for catalogs.

MILWAUKEE, WIS.

IDEAL KNOCK-DOWN OVENS

ARE here shown set up ready for use, and Knocked Down, boxed ready for shipment or storage. Note the contrast.

Our oven saves storage room, freight charges and freight claims; and being packed in tight cases the goods are always nice and clean and in good shape.

WRITE FOR CATALOGUE AND PRICES...

A. GEISEL MFG. CO.

Manufacturers Enameled Ware and Tinware.

ST. LOUIS, U. S. A.

Ohio and U. S.

Wrought Steel Ranges

We are pioneers in steel range business; old in experience yet adopt modern up-to-date methods. Write for our catalog.

Tinnerman Steel Range Co.

CLEVELAND, O.

There's Only One

steel range a dealer can handle on which he can make an argument both as regards PRICE and QUALITY that is the

WILLARD STEEL RANGE

This range sells on its merits at a price that places it within the reach of all.

Wm. G. Willard, Mfr.

619-621 N. Fourth St., ST. LOUIS, MO.

FAVORITE STOVES

IF IT'S COOKED
ON A FAVORITE IT MUST BE EXCELLENT

THE ONLY BEST

WE GUARANTEE "FAVORITE" STOVES AND RANGES "BEST IN THE WORLD"

LOOKERS, HEATERS AND COOKERS

ASK ABOUT THEM.

Farwell, Ozmun, Kirk & Co. ST. PAUL, MINN.

FAVORITE RANGES

If you could buy another heater for half as much—

You'd still save money by buying a

RICHMOND

Steam or Hot Water **HEATER**

Catalogue explains how durably constructed and how economical of fuel they are—send for it.

THE RICHMOND STOVE CO., Norwich, Conn.

WESTERN BRANCHES:
Chicago Heater & Supply Co., Chicago. Rumsey & Sikemeier, St. Louis.

C. H. COSBY'S

Patent Air Tight Baker and Heater.

Agents wanted in every town and city.
Write for particulars.

C. H. COSBY
423 W. Broad st.,
RICHMOND, Va.

COMMON SENSE CIRCULATOR AND RADIATOR

(Patent applied for.)

This Heater is so simple that its superiority over all others is plain. Being open at each end the cold air is taken in at the bottom, passing out at the top heated; producing a circulation unequaled by any radiator. Is easily cleaned or repaired. Takes the place of a joint of pipe. Diameter of casings, 10½ and 12½ inches. Send for circular and price list.

A. C. SELLECK,
755-757 W. Madison Street,
Chicago.

H. G. Groth
Cedarburg, Wis., Writes:

"Please take out my advertisement for a tinner. I am "overflooded" with letters from all parts of the State, and was able to select one of them."

J. K. SCHICK, Fairbury, Ill., writes:

"Your paper has furnished me with more than ten times the value of its cost."

STAR STOVES AND RANGES
ENTERPRISE STOVE CO. VINCENNES, IND.
GUARANTEED

CATALOGUE SHOWING

Gas Ranges
Steel Ranges
Cast Ranges
Steel Cooks
Cast Cooks
Cast and Steel Heaters
Hot Plates

WILL BE FURNISHED FOR THE ASKING BY

Enterprise Stove Co.
VINCENNES, IND.

The Monarch

KRUSE & DEWENTER

Manufacturers of

Annealed Steel and Cast Iron Warm Air

FURNACES

427-429 East Washington Street
INDIANAPOLIS, IND.

Write us for complete catalogue and prices

The Globe

REGARDING

Boomer Furnaces
OR
Boomer Steel Ranges.

Boomer Furnace.

We want to state in strongest terms possible that if you want the

Heaviest,
Most Durable,
Most Economical

and easiest to take care of Furnace or Steel Range, buy a **Boomer.**

Neither time nor money is spared to make them the Best. Buy Boomers and save your coal bills. We invite investigation.

Boomer Steel Range.

THE HESS-SNYDER CO.,
Manufacturers, MASSILLON, O.

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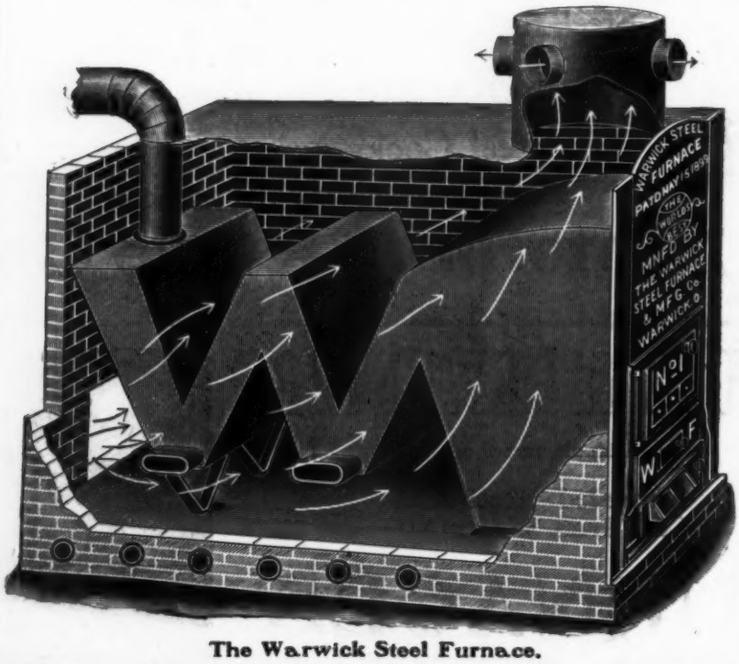
THE REAL THING



The Warwick Steel Furnace.

THE WARWICK STEEL FURNACE

Burns Wood or Coal

It is the Best
Cheapest
and most
Economic Furnace

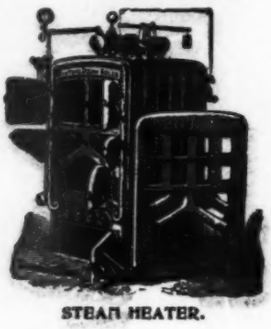
Manufactured by

THE WARWICK FURNACE MFG. CO., MASSILLON, OHIO.

Write us for Prices, Descriptive Catalogue, Etc.

Largest Variety.
Latest Improvements.
Lowest Prices.
Most Reliable and Economical

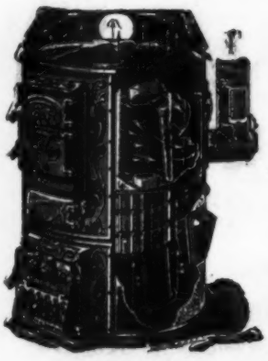
1902 will be a Record Breaker



STEAM HEATER.

Heating....

Apparatus



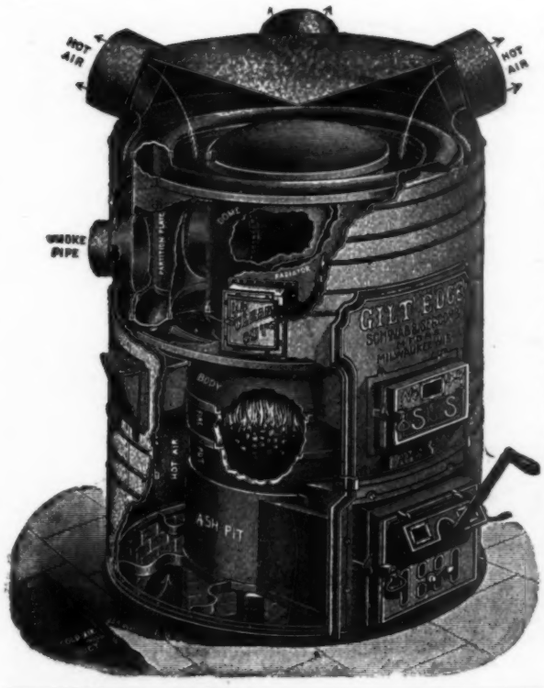
FURNACE.

Furnaces, Hot Water, Steam and Combination Heaters.

A Postal Card will bring to you full descriptive Catalogs, Price Lists and Discounts.

The Boynton Furnace Co.

207-209 Water Street, NEW YORK 147-149 Lake Street, CHICAGO

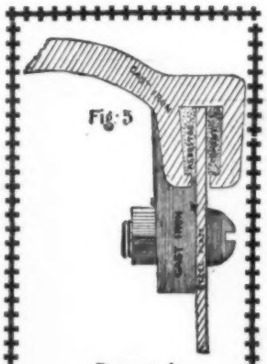


Gilt Edge Warm Air and Combination Heaters

have merits that are all their own. They are made in a large variety of styles and sizes, each adapted especially to a certain class of fuel. Our line is "gilt edge" in every sense of the word. Every furnace we make is correctly made in accordance with right principles, and the price is right. Kindly write us for catalogue.

R. J. Schwab & Sons Co.,

Milwaukee, Wis.



Patented

The Keystone Joint used on Gilt Edge Furnaces is the only permanent gas-tight steel and cast iron joint on the market.

Emperor Furnaces

For Wood

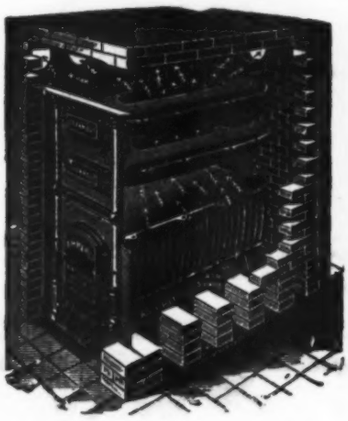
Simple. Safe. Durable.

The Best and Cheapest Line of Wood Furnaces.

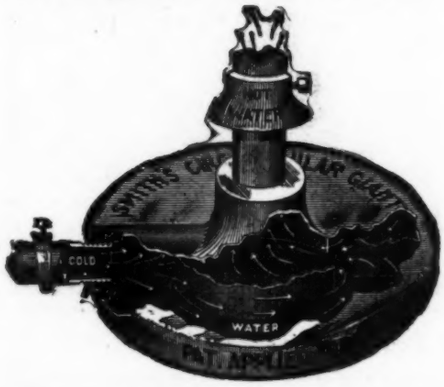
Furnished for Either Brick or Galvanized Iron Casing. Send for Catalogue.

Bergstrom Bros. Co.

Neenah, Wis.



Smith's Hot Water Specialties



CAN BE USED IN ANY FURNACE

WILL HEAT YOUR COLD ROOMS

WRITE FOR CATALOGUE.

CHAS. SMITH COMPANY

122 LAKE STREET . . . CHICAGO

THAT PAPER IS THE CHEAPEST WHICH BRINGS THE BEST RESULTS IN PROPORTION TO ITS RATE, NO MATTER WHAT THAT RATE MAY BE.

LET US REMIND YOU THAT

MUELLER

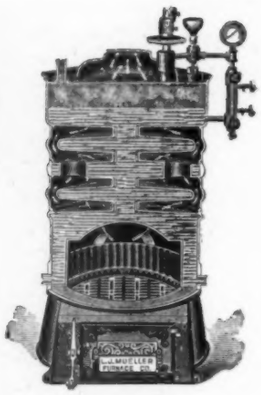
FURNACES and BOILERS

ARE THE BEST PRODUCED

Don't you think it to your interest to handle such a line?

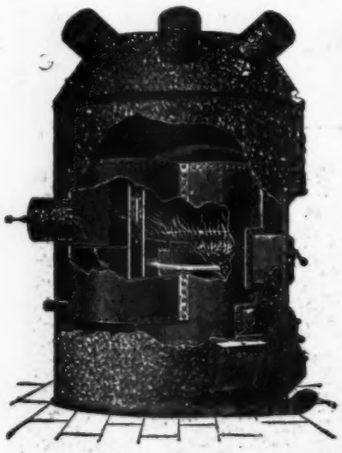
MADE FOR ALL KINDS OF FUEL

Write for Catalgoue and Prices. Everything in the Heating Line.



Established 1857

L. J. MUELLER FURNACE CO. 191 REED ST. Milwaukee, Wis.



Weir Furnace.

Weir ALL STEEL GAS AND SOOT CONSUMING Furnace.

The Heaviest Steel Furnace Made.

Absolutely gas and dust tight.
A great heat producer, but a fuel saver.

MADE IN TWELVE SIZES.

"The Handy Furnace Pipe"

The saving of labor in putting it up really makes it the cheapest hot air pipe on the market.

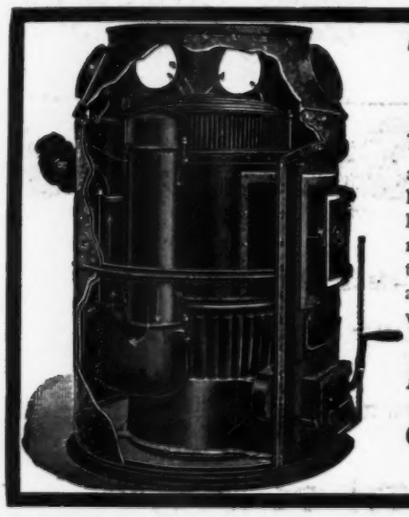
Is Absolutely Safe.

Handy Pipe.

Manufactured by

Meyer Furnace Co.

Send for Catalogue. PEORIA, ILL.



THE JUDGE'S MANSION

and the widow's cottage both require heating, but the same furnace would hardly do for both. The successful furnace dealer is one who handles a line like the **Floral City** which embraces warm air and combination heaters for any class of work or any kind of fuel.

Monroe Foundry & Furnace Co.,

MONROE, MICH.

Henry E. Davis, Girard, Ohio, writes: "Please discontinue my advertisement in your want column for a tinner. I have found one and think your paper is all right and your want column is all right, for letters of application come thick and fast."

The American Artisan Manuals Handsomely and substantially bound. Highest authority in the particular field they cover. **Price, $3.50 each**

For Sale by DANIEL STERN. 69 Dearborn St., Chicago

The Etna Furnace

Is the result of twenty years' experience in hot air practice.

The Etna contains many strong, practical features not found in the majority of others. We feel satisfied they will meet the approval of every dealer who has been up against the heating problem and encountered its difficulties. We have smoothed out some of the rough places.

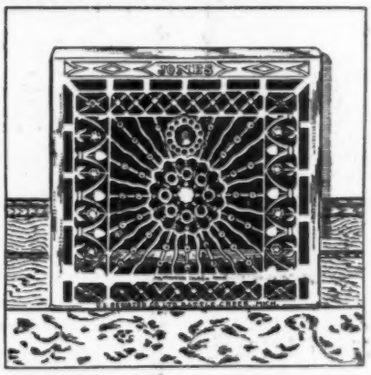
READ THE CATALOGUE. SENT FOR THE ASKING.

Pittsburgh Stove & Range Company

PITTSBURGH, U. S. A.

THE FURNACEMAN'S CHOICE

The Jones Side Wall



Warm Air Register

Is the One with a Double Ventilated Register Box That is Ready to Install When Received

No Delay or Annoyance Making Boxes to Fit the Jones Register.

They Reduce the Cost of Installing Furnaces

They increase the efficiency of furnaces as there is less heat lost in the cellar by their use.

They Have 50% More Capacity Than Others.

Write for Catalogue and Prices.

MANUFACTURED BY

The UNITED STATES REGISTER CO., Ltd., 61-63 State Street, BATTLE CREEK, MICH.

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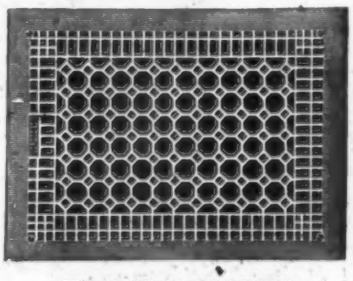
TERRE HAUTE STOVE & FURNACE CO., Terre Haute, Ind.

ROYAL HEATING CO., San Francisco, Cal.

MARTIN FISHER, Buffalo, N. Y.

WM. A. SHERMAN, Troy, N. Y.

HOLMES FURNACE & STOVE CO., Cleveland, Ohio.



WE MAKE RIGHT PRICES AND PROMPT SHIPMENTS

All Sizes — All Styles of Finish

Quality and Finish Unexcelled

HENRY & SCHEIBLE CO.

6-8-10 Long Street
CLEVELAND, O.

CHAS. F. MALONE,

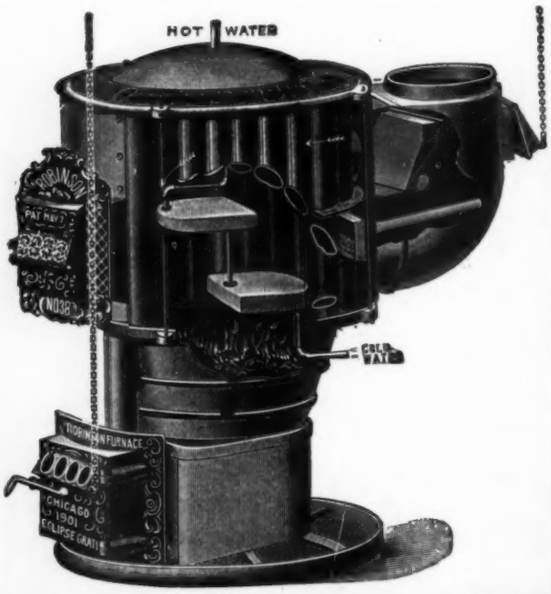
ROLFE, IA.,

WRITES:

"If I went to South Africa I would want The American Artisan sent to me."

Wm. Reckmeyer & Son, Arlington, Neb. Write:

"Please discontinue advertisement in want column. We received replies from quite a number."



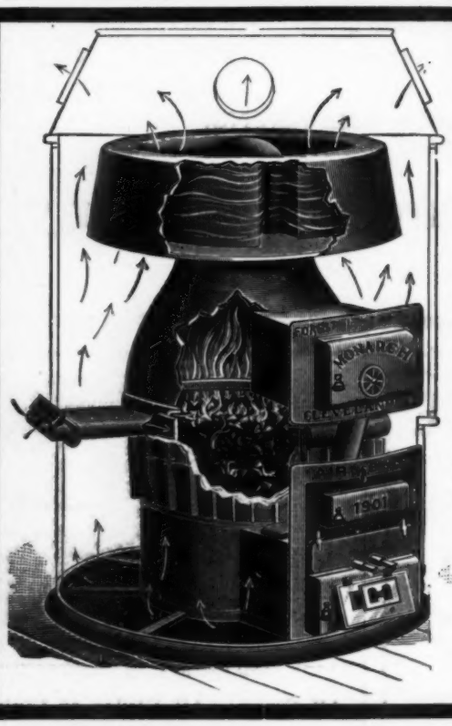
The Robinson Tubular Warm Air Furnaces

Are constructed to give the greatest amount of heat from the smallest amount of fuel. These furnaces contain many special features not found in other heaters. These features are original with us and are fully protected by letters patent.

Write for catalogue.

Robinson Furnace Co.

Chicago, Ill.



Monarch Furnaces

are made and finished throughout by skilled mechanics and are guaranteed to be of the best materials, perfect in workmanship, finish and operation. Our Furnaces are constructed wholly of cast iron, with smooth surfaces, perfect fitting deep cut joints, and all parts made to best withstand the great heating power of the Furnace; also all parts exposed to the direct action of the heat are made extra heavy.

Write for Catalogue.

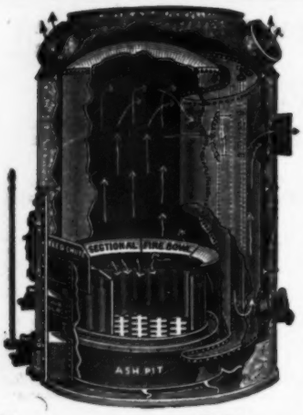
The FOREST CITY FDY. & MFG. CO.,
CLEVELAND, OHIO.

W. B. KIRK & CO.

CONNEAUT, OHIO,

WRITE:

"Please discontinue our ad. for help. We are flooded with answers."



The Torrid Zone Furnace

will make you more money than many others.

First, because it gives your customer satisfaction.

Second, it is easily set up and cased.

Third, it has points of merit that others do not have to point out to the customer.

Fourth, the price is right. We give you your choice between a castiron and brick lining at the same price.

Write for catalogue and prices on Hot Air Furnaces and Combination Heaters.

Lennox Manufacturing Company,

Cor. 9th Ave. & Frederick St., MARSHALLTOWN, IOWA.

Plumbing,

Drainage, Water Supply and Hot Water Fitting.

By John Smeaton, C. E.

CONTENTS:

Chapter 1. Introduction. 2. Drainage. 3. Danger from city wells. 4. External plumbing. 5. Internal plumbing and fitting. 6. Sanitary plumbing. 7. Water services and tapping of mains under pressure. 8. Water supply. 9. Ornamental leadwork. 10. Heating. 11. Hot water work. Index.

236 pages, 217 illustrations, 8vo., cloth.

Price, $3,00.

For Sale By.....

DANIEL STERN,
69 Dearborn St.,
Chicago.

Royal Heaters.

MANUFACTURED BY THE

HART & CROUSE CO.

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ALL THE LEADING LINES OF

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ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

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CHICAGO, APRIL 26, 1902.

THE hardware merger idea seems to be spreading, as we learn from the Grand Forks (N. D.) *Herald* of April 4 "that a hardware merger is said to be in progress in Bathgate."

THE tariff systems now in use among the prominent commercial countries of the world may be classed under three heads: (1) The general tariff system; (2) the general and conventional tariff system; and (3) the maximum and minimum tariff system. The system of a general tariff is the simplest of those enumerated, and consists in having a single schedule of import duties, which is applied to the goods of all countries without distinction. Such a tariff is altogether an act of the legislative branch of the government. It takes account only of the needs of the home country, and recognizes foreign commercial relations only in so far as the latter are in harmony with home interests. The system of general and conventional tariffs, however, makes a distinction between goods which come from different countries.

ENGLAND is generally regarded as the land of conservatism and nowhere is precedent so marked a fetich and progress looked on as such rank iconoclasm as in the various departments of the government. Chas. Dickens' circumlocution office was not too savage a satire on current conditions in the war office, for example, as is shown by the treatment recently given to Dr. Conan Doyle, the popular creator of "Sherlock Holmes," who discovered a way to insure approximate accuracy in high-angle or dropping rifle fire, the need of which has so often been felt in the present war in the Transvaal. The inventor states that the apparatus would be fitted to the rifle, and would weigh comparatively nothing, cost but a few cents, take up very little space, and interfere in no way with the present sights. The novelist communicated with the officials in London and received the following reply: "With reference to your letter concerning an appliance for adapting rifles to high-angle fire, I am directed by the Secretary of State to inform you that he will not trouble you in the matter." As Dr. Doyle remarks, the invention might be absolute rubbish or it might be epoch-making, but he has been given no chance of either explaining or illustrating it.

PUBLIC interest in the sugar problem—the share of the enormous consumption of that article supplied and likely to be supplied by the United States—has led the Treasury Bureau of Statistics to prepare a statement regarding the sugar consumption of the United States, the amount produced in this country of cane and beet, separately stated; the amount produced in its insular territory, Porto Rico, Hawaii, and the Philippines; the amount imported from Cuba, the amount from other tropical territory, and the amount from the beet sugar-producing countries of Europe. The sugar consumption of the United States has grown from 1,272,426,342 pounds in 1870, to 5,313,937,840 pounds in 1901; or, from thirty-three pounds per capita in 1870 to sixty-eight pounds per capita in 1901. Of the 5,313,987,840 pounds consumed in 1901, 985,568,640 pounds, or more than one-sixth, were produced in the United States; 852,205,760 pounds, or about another sixth, were produced in the insular possessions, while the remainder, amounting to 3,476,213,440 pounds, or about two-thirds of the total consumption, represented imports for consumption. Of the total imports during the calendar year 1901, 1,302,860,514 pounds were from Cuba, 686,676,954 pounds from the East Indies, chiefly Java, 1,122,800,887 pounds from other cane sugar countries, and 599,774,613 pounds from the beet sugar countries of Europe.

COMMERCE between the United States and Porto Rico is increasing with phenomenal rapidity, especially since the removal of all tariff restrictions in July of last year. Our purchases from Porto Rico are nearly three times as great as the average during the closing five years of Spanish rule in the island, while the shipments from the United States to Porto Rico are five times as great as the average during the five years preceding the termination of Spanish rule. The receipts of merchandise from Porto Rico at the ports of the United States now range between five and six millions annually, and the shipments to Porto Rico, which were about seven million dollars in last fiscal year, seem likely to be ten millions in the present fiscal year ending June 30th. This rapid growth in the movements of commerce between the ports of the United States and Porto Rico is presented by a statement just prepared by the Treasury Bureau of Statistics, which shows that the shipments of domestic merchandise from the United States to Porto Rico in eight months ending with February amounted to $6,887,052, indicating that for the full fiscal year the total shipments of domestic and foreign goods from the ports of the United States to Porto Rico will aggregate about $10,000,000. The exports from the United States to Porto Rico during the five years ending with 1898 averaged less than $2,000,000 per annum, and thus justify the assertion that our shipments of merchandise during the present year to Porto Rico seem likely to be as much as in the entire five years ending with 1898.

RANDOM SKETCHES.

BY SIDNEY ARNOLD.

I note from a contemporary that "a cafe is drawing trade in Chicago by advertising that every table is equipped with a telephone. This latest innovation is called a 'snap jack. The telephones are movable, so that a diner may order one with his meals. Connection is made simply by dropping a dime in a slot in a box underneath the apparatus. A man may, therefore, eat and talk with anyone miles away."

This is what people call progress. By and by some cafe will provide a stenographer at every table, so that the business man can dictate his correspondence between mouthfuls of soup or bites of rare tenderloin. The retail merchant will get so very progressive that he will have an adding machine at the dinner table and compute his profits on his morning's sales with one hand, while he butters his bread with the other.

Mr. Busyman thinks he is saving time when he takes a customer to lunch and talks over his scheme to him. Men pay heavy club dues, so as to have a place in which to talk business while they eat their noonday meals. Ambitious young men spend nine minutes for lunch at a cafetaria or lunch counter. Meanwhile proprietors of liver laundries in the backwoods of Indiana can put up $1,000,000 hotels. If I were an autocrat I would promulgate a law to the effect that no work of any kind should be done between 12 m. and 1 p. m. and that every man be required to spend at least one hour seated at the dinner table, during which he should not discuss business of any kind. Already we as a nation are encroaching more and more upon our poor, abused internal apparatus. We spend two hours in trying to sell a man a bill of goods for $8.83 where the raw material cost us $8.40, and then we contrive and scheme for some way to sandwich in all the business we can into the eighteen minutes we allow ourselves for lunch. No self-respecting stomach will stand this sort of thing forever, and by and by the busy man who never had time to eat, time to sleep, time to exercise, time to rest, or time to think is laid away under an imposing granite monument, where he has all kinds of time. Do you know there are plenty of business men to whom it would be an unmitigated blessing to spend a month in jail were it not for the odium attached thereto and the resultant social ostracism. There they would not be forever on the rampage, as there would be no directors' meetings for them to attend or correspondence to dictate. Their food would be plain and simple instead of highly seasoned, and they would not gulp it down as though eating were a crime, as meals would be about the only break in the monotony of their daily life they would get. Some men try to crowd four months' business into the commercial life of every day and caterers help them along. We do not need cafes with telephones at every table half so much as we need cafes where customers are prohibited from reading the stock market quotations.

* * *

A writer in the National Printer-Journalist in describing the relation of an editor to his subscribers declares that it is that of an employe, hired to serve the news, fresh palatable and at stated intervals, just as the cook is hired to serve the meals. He should feel it his duty to study the tastes of his employers and their families, and recognize that it is good business policy to try to please the largest possible number. Just as the successful cook should do, he should inquire and observe regarding the particular dishes in his bill of fare that are most relished. Like the conscientious cook, he should have due regard to the wholesomeness and cleanliness of that which he serves. He should try to keep himself in touch with everyone who sits down at his spread. He should not assume to have so far mastered his art that it would lower his dignity to listen to a suggestion from the humblest of his employers.

To my way of thinking this is too diffident and narrow a view of the functions of the press. To follow out the analogy of the writer of this article the editorial chef should make an effort to constantly tickle his readers' palates with *pate de fois gras* editorials, calf's head vinaigrette news items, *Camembert* or *De brie* scissorings and Mumm's extra dry technical matter. Such a diet would soon prove vitiating to the intellectual digestion of his clientele. Sensationalism ever proves a flash in the pan, and the journal which would maintain a hold on its readers must rely on the promptness, completeness and accuracy of its news reports.

Men turn to Macaulay or Grote when they desire to read history. When they pick up a trade paper they desire to be placed in as close touch as possible with the trade world of the hour. They want to know what various organizations have just done or are contemplating doing in the near future. They desire accurate data that will help them in predicating market conditions of the future. They are anxious to know what new goods are being made and how they are taking. As each trade is more and more approximating the condition of a great business family they are interested in personal news.

The technical side of some of the leading crafts is constantly progressing and the uptodate craftsmen feels lost if he is not in line with the most progressive ideas.

In fulfilling these wants of its readers the trade paper largely carries out the simile of the cook, who studies the taste of his employers and their families, but the successful class journal has a far higher function. It should be, of course, a trade mirror, but it should also be a trade missionary. It should not, for example, complacently wait until necessary organizations in the trade have been formed and then chronicle their doings. It should study trade conditions and point out the necessity of organizations being formed. It should devote its space freely in giving publicity to movements toward such organization in the precarious preliminary stages. It should fearlessly point out the lines such organizations should pursue in order to meet the largest measure of success. Its work along such a line as this should be on the creative order, as it were, though by no means obtrusive.

Then again the trade paper should be not only the reporter but the evangel of progress. It should agitate in the interest of progressive ideas and should see

in a worthy trade innovation not merely a text for a crisp editorial or an interesting news article, but an opportunity to benefit its readers by forcing it on their attention, even at the expense of reiteration.

At all hazards and at any risk of unpopularity the trade paper must preserve an adamantine stand for truth and justice. Its readers may desire to dwell in a fool's paradise and be hoodwinked by emasculated editorials that are willfully blind to grave trade perils, or which plausibly bolster up trade abuses. but the trade paper must sternly preach the truth, the whole truth and nothing but the truth, however unpalatable it may be. Reverting to the National Printer-Journalist's culinary illustration, I would state that it is the editor's duty to furnish trade quinine as well as trade *blanc-mange*.

The editor of a trade paper finds manufacturer, jobber and retailer all under the necessity of keenly fighting to preserve their commercial existence. Too often one of these classes will take a step minatory to the rights of one of the others, if not actually trespassing on their commercial domain. The invertebrate trade paper can offer its rag of a conscience the flimsy excuse that such a trade encroachment is not really a matter of news and that it cannot afford to make enemies by taking sides in the affair.

The right kind of a trade paper never hesitates one second in a case like this. Be the oppressor the most influential organization or the largest corporation in the trade while the victim is but an insignificant factor, its insistent claim call for exact and impartial justice should ring out in dominant and persistent tones. Suppose a leading jobber sells direct to the consumer in violation of the trade rights of the retailer. Is it not the duty of the trade journal, regardless of whose corns it treads upon, to denounce such defiance of commercial ethics?

In conclusion, I would state that while it is all right in the main for an editor to look on himself as an employe hired to serve his subscribers with the news fresh, palatable and at stated intervals, there are constantly arising crises in which he must assume a tone which hired men should not use to their employers and should hit straight from the shoulder no matter how "unpalatable" his position may be to sections of his clientele, who are influential, either on account of their wealth, position or numerical strength.

* * *

A recent article in the Toronto Globe contains an interesting account of trade conditions in Manitoba and the Northwest territories. Of course, this article is written with a Canadian bias. The following are some excerpts from its deductions:

Barbed wire, of which thousands of tons are used, is supplied by the United States steel trust. Binder twine is, like the wire, duty free, and comes indifferently from eastern Canada and the States. A factory is now being built in Brandon on the co-operative principle that will, it is expected, supply a large part of the demand. Rope for general farm work is made in Montreal. Nails and tacks come from Montreal and Hamilton and are of good quality. The stocks carried are very large and are brought in while freight rates are low during lake navigation. Shovels and spades are made in Gananoque, and harvesting tools at and near St. Catharines. Peterboro supplies locks, bolts and other articles of hardware, while Toronto is the chief point of supply for tinware and graniteware. Hand churns come in by the carload, and St. Mary's and various points in Waterloo county do most of the manufacturing. The woodenware, wood fiber and similar goods are from Newmarket, Toronto and other points covered by the operations of the united factories. Bar iron is from the mills at Hamilton and Montreal. Wheel-barrows are a Meaford product.

In cheap hardware notions and in the lower grades of cutlery the Germans are pre-eminent, but in fine cutlery, in guns and sporting supplies generally, large quantities of which are used, the British manufacturer is supreme. More rifles of American make come in than of guns. Belgium supplies most of the glass, and the stock of this is of course immense, because of the frequency of house building. The paints and oils used are chiefly Canadian preparations.

* * *

The American citizen who aspires to the honor of representing his district in the state legislature is likely to get a jolt when he arrives at the state capital and grows apopletic trying to gain the speaker's ear at a time while that organ is suffering from political deafness. A member of the Germany Landtag has recently found out that his fellow-members are not believers in a common brotherhood and that while he may solicit their votes for some pet measure he cannot look to them for advice gratis. This legislator across the pond recently hurt his finger—possibly he cut it against a free lunch specimen of cervela wurst.

Not troubling to go to his doctor, he asked a medical colleague what he ought to do, and was told to give his finger a "soap bath." On the following day he was much surprised to receive from his friend a note for "medical consultation; the amount ten marks." He then spoke to another colleague, a lawyer, complaining. His legal friend said it was strange conduct, but, should it come to a legal question, he would be obliged to pay, and had better do so at once. The day after the old gentleman's astonishment was still greater on receiving from his friend a note claiming ten marks for "legal advice." Quite angry, he appealed to the commission, a body which settles all personal disputes of the members of the Landtag. What was his disgust when the commission found that he had behaved badly in refusing just demands, and condemned him to make amends by paying the fine of a basket of champagne! The finger, which was meantime perfectly healed, had cost him dear.

A man, even if he is a member of the Landtag, wants to be careful about asking a lawyer or a doctor for advice. He should call on a retail hardware dealer or an editor.

For the fourth time in eighteen years the postoffice department was self-sustaining during the quarter ended March 31, 1902. The receipts for that quarter, $32,005,622, were over a million dollars in excess of the expenditures.

News Siftings.

The Standard Stove Works, Fort Payne, Ala., resumed work on April 21st.

The investigation of British trusts will shortly be taken up by the House of Commons.

Sash and door manufacturers held a meeting in Chicago, April 16th, to form a combine.

It is estimated that the earnings of the United States Steel Corporation for April will amount to $11,500,000.

L. A. Buck has been actively canvassing the possibilities of Winona, Minn., the last few days as a location for a steel range factory.

P. G. Fisher, superintendent of the plant of the Mississippi Valley Stove Co., Fulton, Ill., is enjoying a short vacation in Louisville, Ky.

Lewis A. Bright, Dandridge Spotswood and Oscar Nelson are the incorporators of the Empire Mica Co., of New York city, capitalized at $500,000.

The hardware firm of Brock & Co., Lexington, Ky., will, it is said, control the output of the Lexington Stove Works, who will shortly resume business in that city.

H. B. Richardson, H. T. Anderson, E. J. Stratton, W. L. B. Handysides and Harry Mead are the incorporators of the Mount Alamo Mica Mfg. Co., Bakersville, Cal.

A. M. Belford, E. A. Grosby and Joseph Delor are the incorporators of the Michigan-Snell Vapor Lamp Co., Detroit, Mich., capitalized at $20,000 for the manufacture of vapor lamps.

L. I. Lawson, W. H. Marley and W. H. Johnson will shortly apply for a charter for the Lawson Mfg. Co., Homestead, Pa., who will manufacture gas stoves, burners, water heaters, etc.

A. L. Gassett, secretary of the Economy Stove and Mfg. Co., Detroit, Mich., was a recent caller at THE AMERICAN ARTISAN office. Mr. Gassett reports business in the stove line as excellent.

Frank V. Bartlett, for a number of years past general manager of the Pratt Whitney Co., Hartford, Conn., has accepted a position as general manager for the Ideal Mfg. Co., Detroit, Mich.

Geo. B. Edwards, formerly of the Acorn Brass Works, Chicago, has entered into partnership with his father, G. W. Edwards, in the hardware business at Mendota, Ill., under the style of the Edwards Hardware Co.

The Gate City Stove Works, Catlettsburg, Ky., have increased their capital stock from $2,000 to $10,000. J. P. McCloskey and Coon Kinner are the principal officers of this company which manufactures the Wilson gas stove.

The Blue Flame Oil and Gas Stove Co., of Chicago have decided to locate in Kankakee, Ill. They have started on the erection of two one-story buildings of brick and stone, 100x200 feet and 80x180 feet in dimensions, respectively.

Chas. Dirks, Leer, Ostfriesland, Germany, is the inventor of a new process of fireproof porcelain enameling for cast iron, heating and gas stoves, hot plates, burners, etc., in any desired shades—dark, light, pale and majolica effects. No bath for the metal is required.

Between five and eight hundred molders, mounters and polishers employed by the Detroit Stove Works went on a small strike recently because they were paid by check instead of in currency. On the company's promise to return to the old system, the difficulty was adjusted, and every man returned to work.

Alfred J. Sears, who was arrested recently on the charge of passing forged notes purporting to have been signed by the Phillips & Clark Stove Co., Geneva, N. Y., has pleaded guilty to the charge of forgery in the second degree. It is said that the police in looking up his record found that he had been arrested for larceny in Rochester in 1897.

F. M. Borden & Bro., 118-122 North Second street, Philadelphia, sends us a little circular giving the names of eighty-nine manufacturers whose stove repairs they handle and also calling attention to such other goods of their manufacture as pipe collars, polishing brushes, stove scrapers, blacking, rods, urns, knobs, clay, furnace cement, oil stove wicks, pipe dampers, bolts, stove trucks, shovels, pokers, coal hods, stove boards, pipe wire, German black lead and crocks.

It is said that the buffers and platers will shortly enter into an agreement with the Stove Founders' National Defense Association, which will be closely analogous to the one the latter organization has with the Iron Molders' Union of North America. President Lynch of the Metal Polishers, Buffers and Brass Workers' International Union has been in correspondence with the officials of the Defense Association for over a year and the matter is approaching a crisis.

The Ideal Mfg. Co., Detroit, Mich., send us an unusually attractive catalogue devoted to their line of Ideal gas ranges. The ovens in the Ideal Common-Sense ranges are constructed with the greatest care. The oven bottoms are cast iron and removable. The broiler is located at a point directly to the right and on a line with the top cooking surface. This broiler is constructed so as to ventilate perfectly. The large warming oven, conveniently located, has a drop door. Directly below the warming oven is a water heater constructed of wrought iron pipe, elbows and return bends, and strongly encased in a galvanized jacket.

A director of the United States Steel Corporation in a recent interview says: "We are not worried by the various opinions published to the effect that the capitalization of the United States Steel Corporation is too great for its securities to be desirable investments. The company has been managed on the most approved business methods. Mr. Morgan knows that the basis for enduring business by such a concern as the United States Steel Corporation must be the maintenance of prices at figures which insure a small, regular profit in all the main avenues of its traffic. Had it not been for the United States Steel Corporation the history of the iron and steel business in this country, and perhaps in the world, would have to be rewritten."

The Kalamazoo Stove Co., Kalamazoo, Mich., send us one of their latest catalogues describing their Kala-

mazoo steel ranges. In this range the body, oven, flue bottom and ash pan are made of sheet steel and all the other heavy parts of high-grade stove plate. The firm make their own stove plate, casting it from pure pig iron. The oven bottom is made of two pieces of heavy steel, braced in the center with a heavy, closely riveted seam. The drop oven door opens flush with the oven bottom, forming a large, smooth shelf. The nickeled parts include high closet corners, high closet door handle, high closet bands, high closet brackets, high closet drop shelves, steel edge band, oven door handle, oven door panel, with oven thermometer and heat indicator, bottom name plate and towel rod.

10 PER CENT ADVANCE IN STOVE PRICES.

At a meeting of the Ohio Valley Stove Manufacturers' Association held at the Great Southern Hotel, Columbus, Ohio, April 22, it was decided that the continued advances in the cost of production necessitated an advance in the selling price of stoves of 10 per cent above prices prevailing prior to January 1. This advance is to go into effect immediately.

The following officers were elected for the ensuing year: President, J. D. Foster, Ironton; vice-president, Frank Gibbon, Zanesville; secretary and treasurer, Allen W. Williams, Columbus.

NEW PROCESS GAS RANGES.

The Standard Lighting Co., Cleveland, O., manufacturers of the New Process gas ranges, have introduced a number of new features into these goods, including a friction door hinge, removable oven burners, which

Tangent Star Burner.

can be taken out without the removal of a screw or bolt, top burners which lift out, interchangeable top grates, new mixer covers, new pilot lighters, either needle

Sectional View New Process Gas Range Showing Construction.

valves or round handle cocks as desired, and new tangent burners.

The arrangement of the latter is such that the products of combustion are taken away from each stool of flame quickly and without interference with any other. The heat is applied near the center of the cooking vessel. The cap and body of the burner are cast together with two openings at the bottom for cleaning.

The ovens are completely surrounded by two thicknesses of steel, a heavy wall of asbestos and a dead air space outside the heat flue. The special construction of flues equalizes the distribution of heat in all parts of the oven so that it bakes evenly at the top center and bottom. The heat passes into the baking compartment from the top and the heated air descends through the oven, escaping at the bottom as shown in the cut.

The stoves can be easily taken apart for cleaning and repairing. The top burners can be lifted out cleaning the burner box, the oven burners can be taken out, the oven linings removed and all can be replaced without removing a screw or bolt or without the use of any tools.

SUPPLY MEN ORGANIZE.

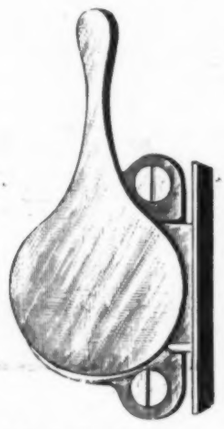
The Southern Supply & Machinery Association was organized at Charleston, S. C., on April 16th.

The officers elected for the ensuing year are as follows: President, C. B. Jenkins, Cameron & Barkley Company, Charleston, S. C.; first vice president, Levin Joynes, Southern Railway Supply Company, Richmond, Va.; second vice president, George R. Lombard, Lombard Iron Works and Supply Company, Augusta, Ga.; secretary and treasurer, C. B. Carter, Knoxville, Tenn. Executive Committee: A. Morris Carey, Carey Machinery and Supplies Company, Baltimore; S. Milnor Price, the Henry Walke Company, Norfolk, Va.; J. A. Riechman, the Riechman-Crosby Company, Memphis, Tenn.; John G. Christopher, Jacksonville, Fla. The constitution and by-laws which were adopted declare the principal object of the association to be the promotion of more friendly business relations and mutual confidence and good will with each other and with manufacturers, and to encourage and promote the commercial interests of the supply and machinery business of the South in every way possible.

It was decided that a special meeting of the association should be held in Memphis, Tenn., October 21, 22 and 23, 1902. The next annual meeting will be held in the spring of 1903.

EMPIRE SIDE SASH LOCK.

The accompanying cut shows the Empire side sash lock, manufactured by the Caldwell Mfg. Co., Rochester, N. Y. These locks are riveted over a washer and will lock the sash, upper and lower, securely at any desired point, affording an excellent and safe means of ventilation. These sash locks prevent any annoying rattling of the window, as the sash when locked is as firm as in a vise.



Empire Side Sash Lock.

A descriptive circular will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

The Hardware Record.

American Hardware Manufacturers Association.
Pres., Fayette R. Plumb, Philadelphia.
V.-Presidents, Samuel Nicholson, Providence; C. S. Van Wagoner, Cleveland. F. S. Kretsinger, Fort Madison, Ia.
Secy-Treas., F. D. Mitchell, Pittsburg.
Ex. Com., Robert Garland, Chairman, Pittsburg; Henry B. Lupton, Pittsburg; N. A. Gladding, Indianapolis; W. S. McKinney, Allegheny, Pa.; Samuel Disston, Philadelphia; C. E. Adams, Cleveland; James P. Kelly, Alexandria, Ind.; J. C. Birge, St. Louis.

Arkansas Retail Hardware Dealers' Association.
Pres., John M. Pitman, Prescott.
1st V.-P., J. F. Maxey, Ozark.
2d V.-P., T. B. Stewart, Newport.
Secy-Treas., J. A. Plummer, Marianna.
Ex. Com., H. Williams, Hot Springs; J. H. Boicourt, Little Rock; J. W. Lee, Fordyce.

Chicago Retail Hardware Dealers' Association.
Pres., D. McLaughlin.
V.-P., H. E. Gnadt.
Sec., G. R. Lott.
Collector, John Hora.
Treas., J. L. Smith.

Hardware Merchants' and Manufacturers' Association of Philadelphia.
Pres., William C. Peters.
V.-P., Thomas Devlin.
Sec.-Treas., T. James Fernley.
Directors, W. W. Supplee, H. McCaffrey, E. S. Jackson, W. C. Peters, S. Disston, E. Fisher, J. H. Ritter, T. Devlin, T. J. Fernley.

Illinois Retail Hardware Dealers' Association.
Pres., H. G. Cormick, Centralia.
V.-P., D. Holder, Bloomington.
Sec., L. H. Clark, Rockford,
Treas., F. F. Porter, Chicago.
Ex. Com., H. G. Cormick, Centralia; D. Holder, Bloomington; L. H. Clark, Rockford; F. F. Porter, Chicago; Z. T. Miller, Bloomington; W. T. Gormley, Chicago; H. N. Murphy, Galesburg; C. Mauer, East St. Louis; R. G. Scheurer, Vandalia; F. W. Siecke, Freeport.

Indiana Retail Hardware Dealers' Association.
Pres., W. P. Lewis, New Albany.
V.-P., Jas. L. Fulton, Portland.
Sec. and Treas., M. L. Corey, Argos.
Members Ex. Com., I. A. Sibley, South Bend; E. M. Bush, Evansville; W. H. Weed, Vincennes.

Indian Territory Retail Hardware Association.
Pres., Geo. W. Mowbray, Tulsa.
1st V.-P., J. G. Smith, Canadian.
2d V.-P., Fred Parkinson, Wagoner.
Treas., Sam R. Frazee, Vinita.

Iowa Retail Hardware Dealers' Association.
Pres., W. A. McIntire, Ottumwa.
V.-P., J. Seither, Keokuk.
Sec., W. H. Keating, Ottumwa.
Treas., Geo. Lister, Manchester.
Ex. Com., J. Seither, Keokuk; Clarence Phillips, West Liberty; L. Lindenberg, Dubuque; T. J. Lomas, Cresco; C. F. Schmidt, Marshalltown; Homer Duncan, Albia; L. H. Kurts, Des Moines; C. R. Keating, Mt. Ayr; Chas. Swaine, Council Bluffs; H. S. Vincent, Ft. Dodge; W. H. Millard, Cherokee.

Kansas Hardware Dealers' Ass'n.
Pres., Oscar Roehr, Topeka.
V.-Pres., E. J. King, Logan.
Sec'y-Treas., J. A. Cole, Topeka.
Ex. Com., F. W. Bartlett, Kansas City; T. H. Kiniry, Beloit; J. M. Walters, Robinson; J. H. Hamilton, Arkansas City; T. J. O'Neil, Osage City.

Kentucky Retail Hardware and Stove Dealers' Association.
Pres., W. T. Oldham, Mt. Sterling.
1st V.-Pres., J. L. Malin, Vine Grove.
2nd V.-Pres., W. S. Schacklett, Fulton.
Sec., Paul Wagner, Louisville.
Asst. Sec., Joseph C. Kirchdorfer, Louisville.
Treas., Henry Heick, Louisville.

Michigan Hardware Association.
Pres., H. C. Minnie, Eaton Rapids.
V.-P., Geo. W. Bruske, Saginaw.
Sec'y-Treas., H. C. Weber, Detroit.
Assistant Sec., C. A. Day, Detroit.
Ex. Com., Samuel Winchester, Jackson; Fred S. Cook, Fowlerville; C. E. Pipp, Otsego; A. Harshaw, Delray; A. J. Scott, Marion City; James J. Potter, Alpena; Jno. W. Jochin, Ishpeming; Robt. G. Chandler, Coldwater; John Popp, Saginaw, F. Carlton, Calumet.

Minnesota Retail Hardware Ass'n.
Pres., W. H. Tomlinson, LeSueur.
V.-P., H. S. Cleveland, Minneapolis.
Treas., W. E. Barto, Long Prairie.
Sec., T. McCracken, Minneapolis.
W. H. Tomlinson, LeSueur; H. S. Cleveland, Minneapolis; F. E. Hunt, Red Lake Falls; Benj. F. Kernkamp, St. Paul; A. C. Hatch, Battle Lake. Jos. Mason, St. Peter; C F. Ladner, St. Cloud; J. Schmidt, Wabasha; E. H. Loyhead, Faribault; A. T. Stebbins, Rochester; J. McGuire, St Paul.

Missouri Retail Stove and Hardware Dealers' Association.
Pres., Tayler Frier, Louisiana.
V.-P., Ed L. Wachter, St. Louis.
Sec.-Treas., F. N. Neudorff, St. Joseph.
Ex. Com., J. W. Poland, Carrolton; F. A. Kannsteiner, St. Louis; Frank Mayer, Macon.

National Hardware Association.
Pres., R. A. Kirk, St. Paul.
1st V.-P., John C. Koch, Milwaukee.
2nd V.-P., Brace Hayden, San Francisco.
Sec.-Treas., T. James Fernley Philadelphia.
Ex. Com., W. K. Belknap, Louisville; Samuel A. Bigelow, Boston; P. E. Strauss, Boston; J. D. Moore, Birmingham; R. M. Dudley, Nashville; W. S. Wright, Omaha.
Advisory Board, W. W. Supplee, Philadelphia; H. H. Bishop, Cleveland; John Bindley, Pittsburg; R. W. Shapleigh, St. Louis.

National Retail Hardware Dealers' Association.
Pres., H. G. Cormick, Centralia, Ill.
V.-P., C. N. Barnes, Grand Forks.
Sec., M. L. Corey, Argos, Ind.
Treas., W. Bogardus, Mt. Vernon.
Members Ex. Com., W. P. Bogardus, Mt. Vernon, O.; O. P. Schlafer, Appleton, Wis.; C. F. Ladner, St. Cloud, Minn.; W. A. McIntire, Ottumwa, Ia.; Sharon E. Jones, Richmond, Ind.

North Dakota Retail Hardware Dealers' Association.
Pres., H. N. Joy, Hamilton.
V.-P., H. F. Emery, Fargo.
Sec., C. N. Barnes, Grand Forks.
Treas., W. H. Pinkerton, Lakota.
Ex. Com., H. Harrington, Fargo. W. W. Jamieson, Wahpeton; Anton Enger Cooperstown; Frank Lish, Dickinson; H. F. Strehlow, Casselton. I. L. Newgard, Grafton.

Ohio Hardware Association.
Pres., W. P. Bogardus, Mt. Vernon.
V.-Pres., L. F. Stahler, Waverly.
Corres. Sec., D. R. Burr, Piqua.
Fin. Sec., Will C. Jones, Columbus
Treas., H. A. Waller, Ravena.
Ex. Com., J. B. Carson, Hamilton; C. D. Cussins, Columbus; C. W. Jewell, Utica; M B. Tallmage, Mt. Gilead; H. F. Rahe, Cleveland; J. Rohrbacher, Akron; A. H. Strome, Wausau; Geo. B. Meyer, Cincinnati.

Pennsylvania Retail Hdw. Ass'n.
Pres., Geo. L. Moore, Brownsville
V.-P., Geo. J. Rudolph, Pittsburg.
Sec'y, J. F. Frye, Charlerol.
Treas., B. A. Maggine, Braddock.
Ex. Com., A. L. Casselbury, Pittsburg; E. E. Lyon, Greensburg; C. N. Savage, California; B. A. Maggine, Braddock; C. O. Shroyer, Dawson.

Philadelphia Hardware Ass'n.
Pres., Julius M. Aff.
V.-P., C. F. Geissler.
Sec., T. B. Hendricksen.
Treas., Edward H. Shannon.
Trustees, Frank Schmidt, Aaron I. Sanson, Jr., Lewis C. Glading.

St. Louis Stove Dealers' Ass'n.
Pres., F. A. Kansteiner.
1st V.-P., Aug. Steinmeyer.
2d V.-P., Aug. Gruendler.
Sec., A. F. Geschwindner.
Treas., L. J. Boehl.

Southern Hardware Jobbers' Ass'n.
Pres., J. D. Moore, Birmingham.
1st V-P., F. A. Heitman, Houston,
2d V.-P., Bruce Keener, Knoxville,
Sec., C. B. Carter, Knoxville, Tenn.
Ex. Com., W. M. Crumiey, Atlanta, Ga.; O. B. Barker, Lynchburg. Va.; Chas. H. Ireland, Greensboro, N. C.; B. F. Eshleman, New Orleans,

Texas Hardware Jobbers' Ass'n.
Pres., F. A. Heitman, Houston.
1st V.-P., J. C. Bering, Houston.
2d V.-P., Ed. Strauss, Waco.
Sec.-Treas., Robert Eikel, Houston
Ex. Com., Jas. Moroney, Dallas; R. F. Bell, Weatherford; W. L. Sanford, Sherman; A. E. Goeth, Austin.

Wisconsin Hdw Dealers' Ass'n.
Pres., O. Schlafer, Appleton.
V.-Pres., L. Findiesen, Green Bay.
Sec'y-Treas., C. A. Peck, Berlin.
Ex. Com., J. Kornelly, Milwaukee; E. H. Ramm, New London; A. Noll, Chilton; H. L. McNamara, Janesville.

Isaman & Co. are a new Hastings (Neb.) hardware firm.

Fred Rice is a new Prescott (Mich.) hardware dealer.

W. B. Reed is a new Chippewa Lake (Mich.) hardware dealer.

G. T. Mueller has bought the hardware stock of L. Berdall & Son, Columbus, Wis.

Simmons & Henry are a recent addition to the retail hardware force at Luverne, Iowa.

Philip Wheat has established a factory for the manufacture of axe handles at Crab Orchard, Tenn.

Adam Ernst, a prominent Milwaukee, Wis., hardware dealer, died on April 14th at his home in that city.

Foster & Wilson succeed Foster, Burke & Wilson in the hardware business at Harbor Springs, Mich.

The Leslie Hardware Co. have moved from State and Chestnut streets to No. 1 Chestnut street at Sharon, Pa.

Geo. W. Power has purchased a controlling interest in the Duluth Hardware Co., 113 West Superior street, Duluth, Minn.

Frank Gilbert, secretary of the Fruit-Ohl Hardware Co., Sharon, Pa., has tendered his resignation, to take effect May 1st.

The Simmons Hardware and Mill Supply Co., Beaumont, Tex., have increased their capital stock from $10,000 to $20,000.

The hardware store of Daniel Bacon & Sons, Bridgeton, N. J., was robbed of several hundred dollars' worth of cutlery April 18.

Josiah R. Bailey, a hardware dealer located at 820 Seventh street N. W., Washington, D. C., has assigned. James Warden is the assignee.

Jos. Dorweiler, the hardware man of West Bend, Iowa, contemplates building a brick business building, 44x80, with a rear addition, 22x30, also brick.

F. W. De Tray, J. J. Meyer and F. H. De Tray are the incorporators of the De Tray & Meyer Mfg. Co., Chicago, capitalized at $2,500 for the manufacture of hardware specialties.

The firm of Styve & Son, Lake Mills, Iowa, dealers in corn shellers, shelf and heavy hardware, barb wire, etc., have changed their style to Styve & Sons, G. B. Lauritz Styve having been recently taken into the firm.

Carl Brandt will open a new wholesale hardware house at Cedar Falls, Iowa, on or about June 1. He will handle a line of stoves, steel ranges, etc., and will make an active canvass of the surrounding territory.

Charles Holland, Edith M. Rose and Franklin Mortimer are the incorporators of the American Household Hardware Mfg. Co., Janesburg, N. J., capitalized at $100,000, for manufacturing household hardware.

The John Pritzlaff Hardware Co., Milwaukee, have favored us with their spring catalogue showing a line of "Challenge Iceberg" refrigerators, "Victor" refrigerator, "Grand" refrigerators, lawn mowers, force

pumps, door springs, sash fasteners, steel goods, wheelbarrows, wire fence, lamp stoves, conductor pipe, etc.

E. L. Higdon, secretary of the Alabama division of the Travelers' Protective Association, in a recent interview states that that association has taken no official action against the recently formed hardware merger and that precedent is against any such action.

C. S. Hughes & Co., Downers Grove, Ill., have the western office and warerooms for the line of pocket cutlery made by the Case Bros.' Cutlery Co. The knives they are handling, it is claimed, are the only ones made in this country which are hand forged. These knives are high tempered and are made in pearl and stag. This firm advise us that they have had a large demand for these goods and find business very brisk. This firm are also manufacturers' agents for pliers, nippers, glass cutters, nail pullers and other hardware specialties.

The Signal Mail Box Co., Joliet, Ill., send us a circular describing the Bates-Hawley signal mail box. This box is full government size, 18x6½x11½ inches. It is made of heavy galvanized metal throughout, completely weather and rust proof. The box conforms to all postoffice requirements and is handsomely decorated with aluminum bronze and red. The signal flag is raised automatically when a letter is deposited, and is automatically dropped when the door is opened for removing mail, making it unnecessary to examine the box closely to ascertain whether it contains mail or not. The locks are of the best master-keyed grade—no two alike—each lock being provided with two keys for the owner's use. A master key, which will unlock all boxes, is provided for the carrier, so that he can collect mail. This gives the owner absolute security, and is the full equivalent of having the postoffice at his front door. The owner's name is permanently stamped in an attractive celluloid plate. The name plate and post fastening are interchangeable, so that the door and name plate may be placed uniformly in any direction desired on either side of the road. The post is of high carbon steel with hydraulic cement, in a vitrified tile base. An iron bracket and bolts for fastening are furnished with each box.

Fones Bros.' Hardware Co. are now occupying their new warehouse at Little Rock, Ark. This structure, which is 115x125 feet in dimensions, and four stories high, is one of the model hardware warehouses of the country. It not only has excellent facilities for receiving and discharging freight by wagon or railroad, but is one of the most admirably arranged structures in the land. It was designed and its construction superintended by Mr. Jas. J. Mandelbaum, of this firm, after mature deliberation. It is well lighted and ventilated and strong enough to sustain five times the load likely to be required of it. The elevator shafts and stairways are enclosed so as to be absolutely fireproof. A fireproof shaft is provided to carry off smoke from any floor should fire occur. It is built in the most approved slow-burning construction, and it is estimated that should fire occur in one of the stories it would take three or four hours for the fire to spread to a different floor, allowing ample time to get the fire under control. This firm also occupies a magnificent store and salesroom on Main and Second streets, 50x140 feet, four stories. This firm employ four traveling salesmen, but only cover the State of Arkansas. They do not encroach on territory tributary to other jobbing centers, and as a result they reign supreme in the territory they do cover. Their "live and let live" policy has earned for them the friendship of their trade.

THE RETAIL HARDWARE IMPLEMENT AND VEHICLE ASSOCIATION OF THE INDIAN TERRITORY WILL MEET SHORTLY.

Sam R. Frazee, Vinita, I. T., secretary and treasurer of the Retail Hardware Implement and Vehicle Association of the Indian Territory, has sent out the following call to the membership of the association for the forthcoming convention:

"We earnestly solicit a helping hand from you in this great work which no doubt you are somewhat acquainted with, or at least you are familiar with the evils confronting the hardware, implement and vehicle trade of to-day, and by co-operation against these evils we are sure to blot them out.

"We will become members of the National Association this year and then we are in a position to do good for each and everyone of us.

"A good programme will be prepared, touching on all subjects of interest to the trade, and we hope that you will make an effort to be present, as you will certainly be benefited by doing it. Don't be a back number, but come and bring your competitor with you and get in line with all the leading dealers of the United States.

"I hope to see you at our meeting in Vinita, May 13, 1902."

The following engraved invitation was also sent out accompanying this letter:

"You are cordially invited to attend the third annual meeting of the Retail Hardware, Implement and Vehicle Dealers' Association of the Indian Territory at Vinita, Tuesday, May 13, 1902. Open meeting to be held at 7:30 p. m. to allow members to get in during the day. Do not fail to come, as there is much work to be done, and the more present the more we can accomplish."

COMMENDATORY RESOLUTIONS.

The following resolution was unanimously adopted at the regular meeting, held on April 7, by the East St. Louis Retail Hardware Dealers' Association:

"Having learned with great satisfaction of the election of our esteemed neighbor townsman, H. G. Cormick, to the presidency of the National Retail Hardware Dealers' Association, we commend him to every retail hardware dealer in the United States for his untiring efforts in behalf of our state association.

"We should all fully recognize the great sacrifice he is making in accepting this additional office as president of the National Association, and each and every member should take it upon hmself to render him every possible assistance and encouragement. Mr. Cormick, as well as all of the other heads of our association, certainly deserves the undivided support of every member for the time, money and services so gratuitously given for our benefit. Every local asso-

ciation in the country should render their officers every possible assistance."

THE HARDWARE MERGER.

IS VIEWED WITH APPREHENSION.

TO THE AMERICAN ARTISAN.

There is much speculation and numerous pros and cons anent the formation of the "hardware trust." A spirit of unrest, fear and apprehension of dire results to the smaller jobber and retailer has fastened itself upon the great majority of those in the business all over the country. The traveling men representing the various jobbing houses, particularly the smaller ones, here and there in every state are in fear and trembling as to the outcome of the consolidation and concentration of so much wealth. Fresh in their minds are the results of the tobacco trust, cracker trust, baking powder trust and like organizations which have relentlessly swung the axe of the headsman, leaving trunks of their fellow men to weather a storm and seek new avenues of labor, avenues that like their own have seen the frosts of remorseless trusts.

FAVOR A COUNTER-CONSOLIDATION.

Dealers view with alarm the outcome of future hardware trading and swear eternal vengeance upon such of those as they are now patronizing, who shall enter the great pool, which is largely looked upon as one of extortion rather than one of real economics.

Many are the imprecations of dealers who are earnestly praying that the smaller jobbers, who are of respectable numbers, will at once consolidate for rebuttal action, protection and preservation of the business. Of course, much is speculation and no correct judgment can be formed of the future until active operations have been begun.

THE DOLLAR AND THE MAN.

It is, however, reasonable to judge of the hardware trust's probable action by paralleling it with trusts which have been reared heretofore. Like organizations mean like results. These huge consolidations, trusts, combines, or what you please to call them, are always first, last and all the time in the interest of the dollar, not the man. Statutory laws cut no figure, and before any and all the courts man goes down, the dollar triumphs; so what is poor mortal man to do? If he cannot eat "trust" beef will he be able to buy "trust" hardware?

THE AMERICAN EAGLE.

More than a hundred and twenty-five years ago the infant colonies, the original thirteen states introduced to the world, the American eagle, the bird of freedom, who with unclipped wing and an unfettered flight, should proclaim Americanism to all worlds, Americanism—where man stood above the dollar, all free and equal before the law, with every right to free speech, religion, a right of commerce to live and let live, a right as divine as birth.

COMMERCIALISM.

Within the past few years commercialism, sordid gain, commercialism of virulent type has seized upon the strength of wealth, the eagle's wings have been clipped, its flight hampered, the people forced to bow down before the dollar "god." Things the Almighty creator intended for universal man have been cornered, corralled by the monied power, the trusts and it's a case of might makes right.

A GLOOMY VIEW.

The great bird of freedom dips its bill to a crowned king (or soon to be crowned), a monarch establishes upon our shores a camp for contraband trading; he buys our products and would enlist "as soldiers" our young men, using both and all to crush an independent republic, and with shame we blushly look on and let things go, because it's all commercialism of the twentieth century Morgan-Rockefeller-Hanna type.

When every field of our manufacturing and national products have all been covered by the trusts—and the time is not far off—the people will be up against the real thing, but what are they going to do about it? Ask Morgan, Rockefeller or Hanna about it?

THE CRITIC.

——, Iowa, April 21, 1902.

EMPIRE STATE RETAILERS WILL MEET.

John R. Taylor, acting secretary of the New York State Hardware Dealers' Association, has sent out the following call, under date of April 21st:

"A meeting for the organization of the proposed association of retail hardware dealers of the state of New York is hereby called, to be held at Hotel Yates, Syracuse, Monday and Tuesday, April 28th and 29th. A preliminary meeting for general discussion will be held in the hotel assembly room at 2 o'clock, Monday afternoon, and it is earnestly desired that as many as possible be present at that meeting, when the necessary organization committees will be appointed and the time fixed for permanent organization on Tuesday. Mr. M. L. Corey, secretary of the National Retail Hardware Dealers' Association, will be present and address both meetings."

The following dealers have signified their intention of joining the association: Weatherby & Abbee, Addison; G. V. & F. W. Cameron, Albany; E. H. Clark & Son, Avon; W. J. Schofield, Allegany; Frank S. Deane, Amsterdam; Charles E. Bell, Amsterdam; Choate Bros., Auburn; Smith & Person, Auburn; Shallish & Rich, Auburn; Waite & Moore, Antwerp; J. S. Voorhees & Co., Baldwinsville; Callahan & Douglass, Binghamton; John Nicholson, Belmont; W. E. Wilkinson, Belfast; The Geo. W. Peck Co., Bath; F. Platto, Sr., Brewerton; F. H. Dillenbeck, Black River; Gleason & Gillette, Bergen; Brockton Hardware Co., Brockton; Charles Decker Co., Brockport; L. P. Smith, Camden; L. Wm. H. Klinkhart, Canajoharie; Farr Brothers, Canastota; Hapeman, VanDusen & Co., Cato; J. S. Pritchard, Corning; Burbank Hardware Co., Cohoes; J. B. Golden, Cohoes; C. T. Jester, Cannonsville; H. J. Allen, Clinton; Frost & Williams, Corning; William Larkin, Cobleskill; Irving VanVoris, Cobleskill; F. D. Smith Hardware Co., Cortland; Dunning & Dickenson, Champlain; W. R. Church, Coxsackie; A. C. Hart, Candor; E. Jerome Woodford, Candor; Day & Holt, Catskill; Alfred Cole, College Point; Sisson & Smally, Cuba; Cole & Andrews, Castile; W. H. Faville, Dolgeville; H. S. Graham, Delhi; J. J. Valk & Co., Dayton; Clark Bloss, Dunkirk; The Geo. W. Peck Co., Geo. Dodson, Mgr., Dansville; A. P. Minor & Son, Deposit; Geo. A. Sheldon, DeKalb Junction; C. J. Bigelow & Co., Dundee; E. N. Brown, Delevern; Griswold, Maloney & Co., Elmira; B. R. Johnson, East Randolph; F. D. Morgan, Earlville; C. F. Case, Farmer; Gould, Carter Co., Friendship; E. A. Perpall, Flushing; Newton & Hill, Fort Edward; Relyea & Rockwood, Fulton; Allen S. Matthews, Ft. Covington; S. Clayton, Frankfort; Jansen & Huestis, Fonda; A. J. Snow, Fulton; French & Rinn, Gasport; Dorchester & Rose, Geneva; J. G. Champlin, Greenport; Parker & Cleveland, Greenwood; F. H. Beals, Greene; Bruce & Sandford, Adams Center; Tracey Brothers, Balston Spa; Peck & Oathout, Batavia; D. Cohen, Bloomingdale; H. H. Dutton, Burlington Flats; John W. Wessel, Central Bridge; Fanning & Mussman, Davenport; Alling & Field, Dunkirk; C. A. Gridley & Son, Elmira; Charles M. Bingham, Forestport; Stout & Mason, Friendship; C. H. Bowen & Co., Gou-

verneur; F. B. Harris, Groton; P. F. Shaeffer, Griffins Corners; S. D. Avery, Griffins Mills; D. D. Nelson & Co., Granville; Frank R. Thomas, Gilboa; Whipple & Robinson, Glens Falls; John Kammerer, Gowanda; Wm. A. Stockwell, Gilbertsville; E. E. Steel, Garrettsville; C. L. Crosier, Gorham; M. E. Loveland, Gouverneur; D. H. Williams, Gouverneur; A. B. Cutting & Co., Gouverneur; Stevens, Bacon & Co., Geneseo; Parker & Cleveland, Greenwich; E. L. Durker & Co., Gloversville; J. F. Schumer, Hamburg; E. J. Davis, Hornellsville; The G. W. Peck Co., Hornellsville; J. C. Rogerson & Co., Hudson; C. W. Palmer & Co., Herkimer; Prowse & Pelton, Herkimer; Smith Hardware Co., Hamilton; A. S. Carroll, Hobart; J. & P. McFarland, Hannibal; J. W. Feeter, Highland; Thomas J. Wolf, Holland Patent; C. J. Rumsey & Co., Ithaca; Henry Crocker, Jr., Inwood, L. I.; Norton J. Newth, Ilion; Percey G. James, Jamaica; John G. Ferris, Johnstown; E. J. Fuller, Kendall; Kellogg & Mead, Katonah; A. W. Shields & Co., Keesville; Burney Bros., Little Falls; Shepherd, Skinner & Co., Little Falls; John R. Taylor & Co., Little Falls; W. H. Wilcox, Little Falls; Geo. D. Gibbs, Agt., Little Falls; W. D. Crandall, Leonardsville; R. A. Munroe, Liberty; John W. Petry, Long Island City; C. D. Corey, McGraw; King & Eddy, Moscow; Buck Bros., Middletown; Short & Wilding, Malone; Geo. A. Fowler, Manlius; Acer & Whedon, Medina; W. J. Merson, Marion; Small & Wood, Moravia; W. E. Winsor, Mt. Upton; Wade & Shear, Masonville; W. S. Lawrence & Co., Moria; E. B. French, Middleport; Russell & Culley, Mount Morris; Brown Bros., Montgomery; J. C. Safford & Son, Mechanicville; E. B. Osborn, Mount Morris; Allen & Palmer, Northville; J. S. Anderson, Narrowsburg; Charles E. Leggett, Newark; L. G. Matteson, Newark; F. W. Oliver Co., Niagara Falls; P. M. Hood, Agt., New Paltz; F. F. Wagenschultz & Co., N. Tonowanda; M. E. Hastings, N. Y. Mills; A. B. Rathbone, Oakfield; Miller Hardware Co., Olean; Rockwell & Hammond, Horseheads; A. B. Dodge, Huntington; Barr Brothers, Ithaca; Frank Miller, Johnstown; Cole & Brace, Jordan; L. S. Winne & Co., Kingston; John Day & Sons, Lestershire; Cornell & Co., Middleburg; J. S. Bradley, New Berlin; J. H. VanDusen & Co., Newburg; W. E. Prudens & Son, New York city; T. Lewis Smith, Oswego; Burchard Brothers, Oxford; John Barr, Ogdensburg; Bowman Bros., Ogdensburg; J. S. Houk, Owego; C. V. B. Barse & Co., Olean; Stevens & Hills, Oneonta; Geo. Bradish, Oswego; T. Lewis Smith, Oswego; Reid & Co., Oswego; W. E. Cook, Pultney; Olin, Buck & Grieve, Perry; C. Auryansen, Piermont; C. E. Marlin, Potsdam; J. J. Kimball, Philmont; McKinney & Ward, Pine Bush; J. T. Breadnor, Port Henry; Countryman & Co., Potsdam; Gifford Dudley, Poughkeepsie; Swinton & Co., Port Jervis; L. J. Macey, Pulaski; Hallowell & Wise, Pen Yan; Coats & Chilton, Rouses Point; Jesse Sage, Rochester; Louis Earnst & Son, Rochester; H. H. Maxon, Rochester; M. J. Wilson, Rushville; Rufus Snyder, Rosendale; R. G. Smith, Russell; Buchanan Hardware Co., Richfield Spa.; Freeborn & Rich, Randolph; Frank Enderlin, Roxbury; J. Townsend & Son, Rome; W. W. Lyons & Son, Smyrna; John B. Foley & Co., Syracuse; John W. Brown, Syracuse; Dotterer & Becker, 722 N. Salina St., Syracuse; Adirondack Hardware Co., Saranac Lake; S. E. Scott, Sandy Hill; Frank Weber, Stapleton; R. Reed & Co., Sinclairsville; Teller & Goodnoe, Schenectady; Butts, Danford & Co., Sodus; Towne Hardware Co., Saratoga Springs; F. W. Gardner, Saratoga Springs; Lewis Boecher, Spring Valley; G. S. McRae & Co., Schuylerville; H. Curtis, Springville; J. A. Andrews & Son, Salamanca; J. C. Hayford, Tully; H. D. Hull, Troy; Frank L. Burst, Ticonderoga; D. C. Bascom, Ticonderoga; H. M. Riggs, Agt., Turin; H. M. Sponenburg, Watertown; Charles Sherwood, White Plains; Fowler & Sellers, White Plains; Edward Nugent, Waterloo; C. V. Webster, Waterloo; T. E. Nowlan, Whitney's Point; Bonton & Westcott, Waverly; Charles Eitapence & Co., Worcester; Webster & Case, Warsaw; Wm. J. Bissell & Son, Waterville; W. G. McLean & Co., Waterville; Hoyt Hardware Co., Wellsville; T. B. Boyce, Wellsville; M. Kimmel & Sons, Wayland; Wood Hardware Co., Whitehall; I. P. Gale & Co., Yonkers; Loveland & Christholm, Ogdensburg; A. P. Storrs & Co., Owego; A. M. Smith, Pike; I. D. Peckham, Richfield Springs; Wm. B. Burke, Rochester; Charles S. Cook, Rochester; Clark Whitbeck, Schenectady; J. C. Muller, Stapleton; Sabin & Harvey, Utica; C. V. Webster, Waterloo; W. W. Paddock & Son, Walcott; L. H. Wiggins & Son, Yonkers.

GEORGIA MAY ACT AGAINST THE HARDWARE MERGER.

It is said that Governor Candler of Georgia is contemplating making a fight against the recent hardware merger in the courts in the interests of the state of Georgia if that company intends to raise the price of hardware. In speaking of the matter in an interview with the Atlanta (Ga.) Journal of April 17th, Gov. Candler says:

"I am in favor of suppressing these combinations when they raise the prices, and if there are no laws on the statute books under which we can proceed then I favor such a law as will give us the authority."

MOTOR MOWER.

The Coldwell Lawn Mower Co., Newburgh, N. Y., have brought out a motor mower, shown in the accompanying cut. This is especially adapted for use on park and golf grounds. It weighs about three thousand pounds and cuts a swath 40 inches wide. This mower not only does especially fine cutting but it keeps the ground in perfect order. For use on golf links it has the advantage that it can be run over the putting greens. This mower can also be used as a steam roller for lawns. When so used the lawn mower part is lifted by means of a lever and left suspended free from the ground.

Motor Mower.

PULLMAN TROUSER OR SKIRT HANGER.

The Pullman Sash Balance Co., Rochester, N. Y., are manufacturers of the Pullman trouser or skirt hanger shown herewith. Their hangers are invaluable for keeping garments of all kinds in first class condition.

Pullman Trouser or Skirt Hanger.

This firm are also well known as the manufacturers of spring sash balances for all purposes.

ORGANIZE A SELLING COMPANY.

Frank Serles, Alfred G. Brown, and M. W. Baldwin are the incorporators of the Standard Metal Mfg. Co., New York city, capitalized at $100,000. It is rumored that this company is designed for the purpose of offsetting the recent merger of hardware jobbing interests. In commenting on the situation, a leading eastern hardware manufacturer speaks as follows in the New York Commercial of April 19th: "The independent manufacturers of the country are beginning to realize that if they do not organize for their mutual protection the purchasing agency for the Jobbers' combine will be able to carry prices down to rock bottom by making offers to different manufacturers in the same line for their entire output, and then bringing them all to terms at the lowest figures.

"The only hope for the wholesale dealers is to establish one selling agency and agree on one price list. The establishment of the Standard Metal Manufacturing Co. is probably only a step in that direction."

DISPLAYING SAWS.

Many a dealer has looked across the street at the beautiful window display of the dry goods man who uses dainty drapings of the latest fabrics or the miniature house with liliputian furnishings complete that the furniture man has on exhibition and has sighed at the limitations in the display line presented by the class of goods he handles. This is largely true, although many dealers by the use of brilliant satin background, or ingenious fire engines, locomotives, etc., constructed out of hardware, have succeeded in getting up windows of unusual attractiveness.

E. C. Atkins & Co., the well-known Indianapolis (Ind.) saw manufacturers, have realized the handicap of the hardware fraternity in the line of window displays, and to obviate same have designed a heroic size figure of a woodsman astride a gigantic log holding one of Atkins' crosscut saws in his hand. This figure is "cut-out" and makes a striking center for a window display, its novelty as a piece of advertising and intrinsic merit calling attention at once to the display surrounding it.

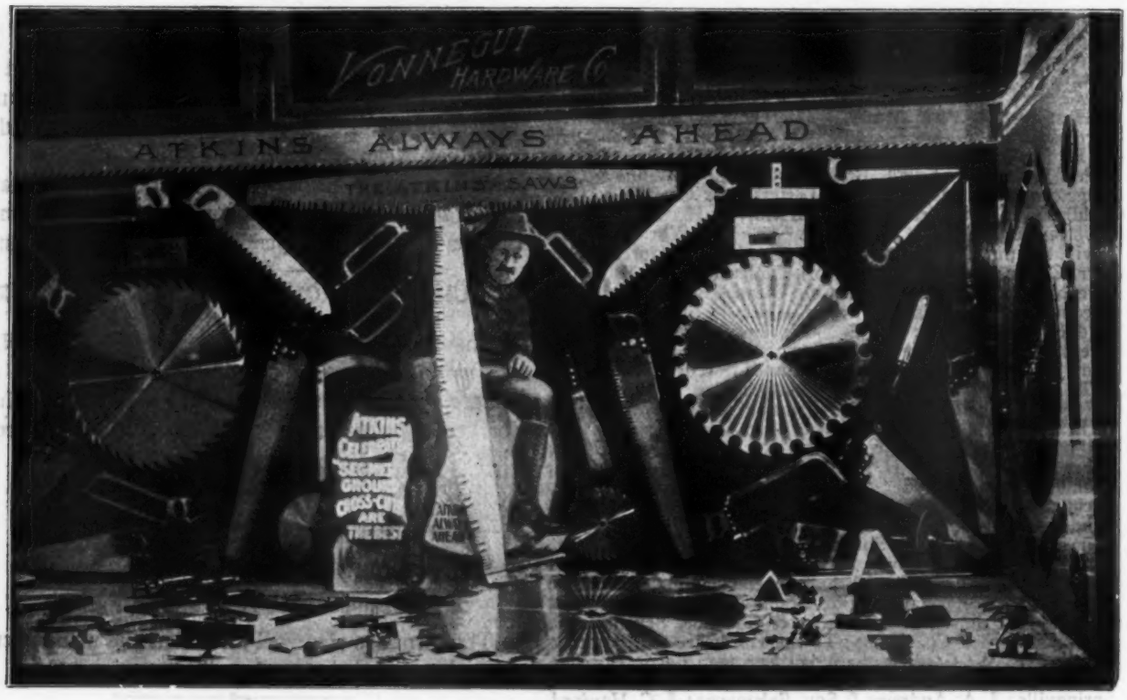
This firm have had an active call for this poster from hardware dealers, who have been quick to recognize its merit as a drawing card for their windows, and they will be pleased to furnish these to their friends in the trade as long as the supply holds out.

The advantages of this "cut-out" for use in window display is shown by the accompanying cut, which shows it in use in the window of the Vonnegut Hardware Co., 124 East Washington street, Indianapolis, Ind. While the figure of this heroic-sized woodsman is the cardinal point of the display, many other articles are shown, including band saws, solid and inserted tooth circular saws, concave, grooving and heading saws, wood saws, hand panel and rip saws, two man and one man cross cut saws and handles, ice, butcher, kitchen, compass, pruning and hack saws, saw knife, corn and cane knives, trowels, scrapers, saws, hammers, anvils, saw sets, swages, etc.

This view was taken at night by electric light with a half hour's exposure and it was only by this means that the artist was able to overcome the myriads of reflections incident to photographing a show window in the day time.

The "cut out" hides a small door which affords a means of entering the window from the store. This window is twelve feet across the front, six feet deep and fifteen feet across the back.

The Vonnegut Hardware Co. occupies their own building, a handsome five story iron and brick, fireproof structure with stone front. Their retail department on the first floor is said to be the second finest store of the kind in the United States. The room is forty-five feet wide, two hundred feet deep, and fifteen feet high, with two immense front show windows. This exhibit of Atkins saws occupied the east window and was one of unusual merit, reflecting credit on both the hardware people and the manufacturers.



A Superb Window Display.

When writing this firm for one of these "cut-outs" the trade should kindly add: "Saw it in THE AMERICAN ARTISAN."

PATENTED HARDWARE SPECIALTIES.

The Enterprise Mfg. Co. of Pa, Philadelphia, Pa., favor us with their latest handsome catalogue of hardware specialties.

The Enterprise sad irons are ground by patented machinery which makes every iron true and the face of it slightly convex. The detachable handles are walnut, except the lower part, which is iron, called a stretcher.

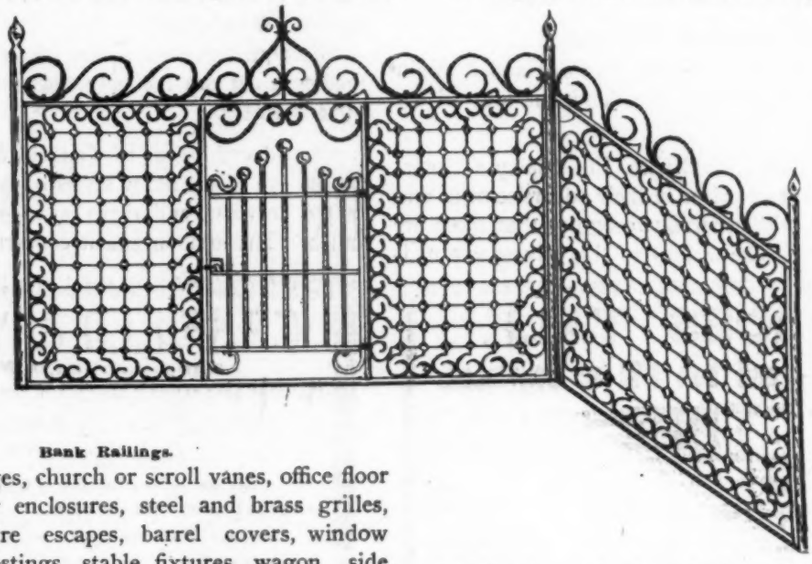
The Enterprise hand choppers with knives and plates have all parts interchangeable. The knives and plates are made of steel.

The Enterprise cherry stoners Nos. 17 and 18 are constructed with a new patent regulating device, the simplicity of which makes it easier to adjust the machine for the different sizes of cherries and absolutely insures the jaws retaining their positions when set.

These are only a few of the specialties taken at random. Others illustrated and described in this book include barrel jack truck and stand, beef shavers, bone shell and corn mills, cheese knives, cobblers' kits, cork pressers, cork pullers, drug presses, flag holders, fruit, wine and jelly presses, graters, meat hooks, ice shredders, lard presses, lawn mowers, lawn sprinklers, measuring faucets, measuring pumps, mole traps, raisin seeders, smoked beef shredders, vegetable slicers and sausage stuffers.

BANK RAILINGS.

The Twin City Fence and Wire Works, 220 East Sixth street, St. Paul, Minn., are manufacturers of the banks, counters and porches, public ground entrances, of bevel glass with gold leaf lettering. This firm make a complete line of ornamental stairs, elevator fronts, elevator cabs, ornamental railings for stairs, balconies, banks, counters and porches. Public ground entrances, station house cages, church or scroll vanes, office floor railings, elevator enclosures, steel and brass grilles, weather vanes, fire escapes, barrel covers, window guards, roof crestings, stable fixtures, wagon side boards, flower pot stands, door mats, brackets and finials, gratings, wickets, verandas, wire signs, wire cloth, vases, wire baskets and wire cages.



Bank Railings.

HARDWARE SPECIALTIES.

North Bros.' Mfg. Co., Philadelphia, Pa., favor us with their latest catalogue of hardware specialties. These include a full line of screw drivers and ice cream freezers. The construction of the ratchet and the pawls in the Yankee ratchet screw driver is such that neither can bend or break. The bits are forged from the best cast steel, properly tempered, ground and polished, and every bit is thoroughly tested before leaving the factory. Other metal parts are nickel-plated and buffed.

The Yankee automatic drill No. 40 bores holes in hard or soft woods without splitting. Pushing down, the handle revolves the drill point and a spring pushes the handle back to its place, while the drill point stands still during the upward movement. This firm's line of ice cream freezers have automatic turn scrapers, cedar pails with electric-welded wire hoops, and cans of heavy tin plate, with drawn steel bottoms. All gearing is completely covered, so that neither ice nor salt can get between the cogs to choke or break them.

One of these catalogues will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

BUSINESS CHANGES.

NEW FIRMS.

Oswego, N. Y.—J. Carroll Smith and E. J. McGann.
Otter Lake, Mich.—Wm. Hemingway.
Aberdeen, S. Dak.—Mr. Walberg.
South Bend, Ind.—Rose & Brother.
Livingston, Wis.—Gundlach & Miller.
Riverside, Mich.—J. S. Fikes & Son.
Bloomfield, Ia.—Mr. Hardy & Son.
Rock Valley, Ia.—Grootes & De Bey.
Duluth, Minn.—G. A. Stenstrud.

CHANGES.

Hopkinton, Ia.—G. W. Collins is successor to Reed & Wheeless.

Lexington, Mo.—Wm. S. Marrs has purchased an interest in the tin and hardware business of Geo. F. King. The firm will now be styled King & Morris.

Glenwood, Minn.—Wenzel Bisek succeeds Hagstrom & Lysen.

Anoka, Minn.—W. C. Middlebook is succeeded by Myron & Joseph Vrooman.

Atlantic, Ia.—C. B. Caldwell & Son succeed to the Van McCurday hardware business.

Shellrock, Ia.—Frank Robbins has secured an interest with Will Stanley. The firm will be known as Stanley & Robbins.

Three Rivers, Mich.—Hickson & Sessions succeed S. G. Chard.

Ellensburg, Wash.—G. W. Hornbeck has sold an interest to C. S. Bullard.

Waterloo, Wis.—Georgetown, Ill.—J. F. Austin will have charge of the Spang and Austin Hardware store.

MISCELLANEOUS.

Owatonna, Minn.—Parrott & Smith burglarized.
Tremont, Ill.—J. G. Dietrich is to be married.

Advertising Department.

Our readers are invited to send in copies of their advertisements in the local press for criticism. All communications should be addressed to the "Advertising Department" of THE AMERICAN ARTISAN.

T. Beck & Co. should certainly call their local newspaper down for the poor type used in their announcement. The body of their announcement shows signs of having been badly worn. The idea of free distri-

Did You

SEE OUR

Majestic Ranges

Don't go home again without seeing them. If we miss you when we send out our cook books just send your name and a book will come to you by return mail.

T. Beck & Co.

Hardware · Furniture · Undertaking

Alliance & Nebraska

bution of cook books is an excellent one and it might be well if this were made the dominant idea of the advertisement.

Knapp & Schuler, Pearl City, Ill., display an interesting assortment of prices in their advertisement, and hardware men will generally recognize that these are quite attractive. The display of this advertisement is

PRICES TALK

Read This and You Will be Convinced.

Four tined Manure Forks, long handle, plain capped ferul	$ .45
Four " " " " " strapped and capped ferul	.50
Three " Hay " " " plain capped ferul	.35
Three " " " " " strapped and capped ferul	.40
Solid socket full polish field hoes select handles	.28
Twelve tooth garden rake	.25
Solid Cast steel long handle shovels	.60
Good single bitted axe handles	.12
Rotary Washing Machines	5.95
Good clothe wringers rolls 10 X 1½ inches warranted for one year	1.45
Good wash boards	.20
Two hooped painted pails	.15
Sixteen inch high grade lawn mowers 8 inch wheels	2.75
Six bar steel curry comb brace and shank through handle	.10
Eighty rods best barb wire	2.65
26 inch Janesville Diamond mesh hog and cattle fence per rod	.28
26 inch American hog fence 12 inch stay per rod	.28
5 ply ½ inch rubber hose per ft.	.09
Thomas and Snow funnel washing machines	3.75
Brooms three and four sewed	.22

Sweat pads from 45 cents up. Hammocks from 75 cents up

Collars and harness, all kinds at right prices. Single harness $6 and up. Blue Flame Oil and Gasoline stoves at right prices. High grade bicycles at a low price to close out.

In Paints, Oils, Harness Oil, Machine Oil, Kerosene, Gasoline and Axle Grease a complete stock on hand at all times, prices as low as any, quality considered. A full line of

FLY NETS, HORSE COVERS, LAP ROBES & DUSTERS.

We have many other bargains to offer you

KNAPP & SCHULER.

good, but we would suggest that it would improve the advertisement some if it did not run entirely to price. Price is certainly a good talking card, but price without consideration of quality is meaningless, and if this firm had stated a little more fully the character of some of the goods they were offering, as well as the price of same, we think the advertisement would be improved.

The advertisement of F. W. Brown is a nightmare solely on account of "fierce" typographical work. The type is frightfully worn and old fashioned, and the

F. W. BROWN, BYRON, NEBRASKA.

Handles a General Line of HARDWARE,

TINWARE. CUTLERY, ETC.

BRIDGE & BEACH

AND

THOMAS WHITE

STOVES and RANGES.

FURNITURE

I have just received a fine line

PAINTS, OILS, VARNISHES.

SEWING MACHINES

Here is the place to buy your Garden Seeds.

variety of type used is enough to throw a decent printer into a cataleptic fit.

The high character of the goods advertised and the mediocre cut are the only redeeming features in the advertisement.

The advertisement of Canfield & Young is marred by the use of too many styles of type. Its appearance is too crowded and there is an endeavor to say too much. The announcement concerning Masury paints

CANFIELD & YOUNG

Announce to the Public

that they have recently bought and now have a full line of

THE CELEBRATED MASURY PAINTS

from the oldest paint house in America; established in 1857.

They also carry a full line of **Oils and Varnishes** as well as Kerosene and Gasoline.

Figure with us on Hardware

Remember that

We carry the **Peoria Steel Range**

Fairbanks-Morse Gasoline Engines

The **U. S. Separator,** best in the market

and a full line of general hardware.

Canfield & Young.

is too prolix and should be snappier. Then, too, space is lost by the duplication of the signature. There are many phrases in the advertisement, such as "announce to the public," that should be blue penciled.

It is said that David M. Parry, who was elected president of the National Manufacturers' Association at their meeting in Indianapolis last week is considing the practicabllity of moving the headquarters of the association from Philadelphia to New York.

Heating and Ventilating.

After May 1st the New York office of the Kelsey Heating Co., Syracuse, N. Y., will be located at 156 Fifth avenue. L. V. Sanford will act as manager.

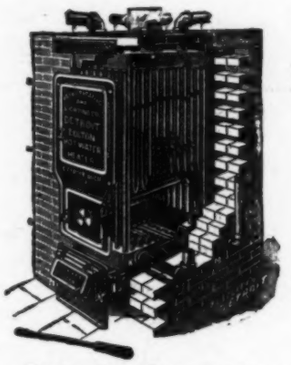
Samuel S. Slater has been appointed temporary receiver for the Frank C. McLain Co., manufacturers of boilers, radiators and heating supplies at 38th street and 11th avenue, New York city. This firm have liabilities of $82,311 and nominal assets of $83,270.

The Warwick Furnace & Mfg. Co., Massillon, O., send us a circular describing the Warwick steel furnace. This furnace is constructed of sheet steel which extends below the ash box and is there riveted and seamed together so that there can be no escape of gas into the air chamber. The fire box is lined with fire brick and is equipped with a shaker and a dump grate all in one piece, which can be lifted out and put through the door. These furnaces are made in three styles of three sizes each. This firm are also manufacturers of registers, furnace pipes, fence machines, cellar grates, farm bells, gutter crossings, sash weights, plow points and spouting. One of these circulars describing this interesting and striking furnace, which is claimed to be the only genuine all-steel furnace, will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

The American Castings Co., Akron, Ohio, are manufacturers of a complete line of hot air registers and ventilators. On May 1st they will place a new hot air register on the market. This register has a patented improvement by means of which it can be placed in position securely and permanently without the use of cement, screws and buttons. When it is in position it connects itself to the hot air pipe with a stove pipe joint connection, and also adjusts itself automatically to the wood register box in such a manner that there can be no escape of hot air from the outside of the register when it is either open or closed, and the air is forced directly through the opening of the register. This feature prevents scorching of paint or delicate decorations of the exposed and finished wood work and prevents dust, soot or dirt from entering the room.

BOLTON HOT WATER HEATER.

The Detroit Heating & Lighting Co., Detroit, Mich., are manufacturers of the Bolton hot water heater shown in the accompanying cut.



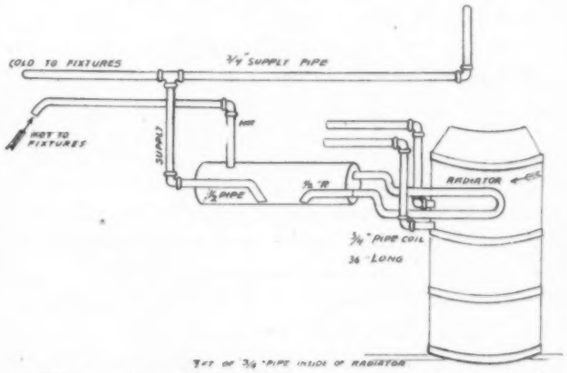
Bolton Hot Water Heater.

There is a free and unobstructed course of water through these heaters. The water on its return from the radiators enters the heater base through the pipes G G. The base itself encircles a bed of live coals, and at this point the first heat units strike the cool water and cause it to spring upward through the many upright pipes connecting the base with the top casting of the heater. The entire volume of water entering the base is all broken up or separated into small one-inch water columns in its course upward so that each will be brought in that direct contact with the fire that the heat can play all around it. A valuable accessory to the circulation provided within this heater is that furnished by the circulating tubes pendant from the top header. The top header or water chamber of every heater, with which must be included the several horizontal sections of heaters built up of horizontal sections, always contain a large quantity of water which is pocketed, and does not freely enter into circulation, and this pocketed water, removed as it is from direct contact with the fire, must always undergo a cooling process, unless some special means are provided to maintain heat. Thus we can readily see the immense value of a system of pendant pipes for carrying the pocketed water down where it will receive the direct action of the fire, and returning it again to the section intensely heated, where it joins the circulating column, and, by its intense heat greatly accelerates the initial circulation of the heater proper.

WHAT AILS THE RANGE WATER BOILER.

TO THE AMERICAN ARTISAN.

I have put up a range boiler as shown in enclosed sketch, but it don't seem to work right. It makes a



rumbling noise while it's getting hot. It heats slowly and grumbles a good deal. A SUBSCRIBER.

Chicago, April 14, 1902.

VACATION TRIPS.

Do you expect to treat yourself to a vacation trip this summer? If so write for a copy of the Wabash Summer Tour Book, giving a great variety of attractive tours with cost of tickets and other valuable information. Write us about any trip you may have in mind. It's our business to help those who travel. F. A. Palmer, A. G. P. A., 97 Adams street, Chicago.

At their recent convention at Wheeling, W. Va., the Amalgamated Association of Iron, Steel and Tin Plate Workers endorsed the action of President Shaffer and national officers in levying strike assessments.

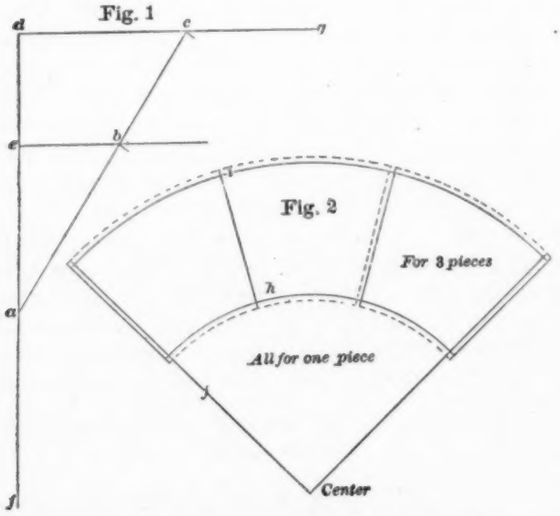
Geo. J. Petrie, Charles J. Petrie, August Petrie and Elmer M. Marlette are the incorporators of the Milwaukee Stamping Co., capitalized at $25,000, for manufacturing and dealing in all kinds of hardware specialties.

Tinshop.

CUTTING A ROUND FLARING ARTICLE.

The accompanying rules with diagrams are respectively submitted:

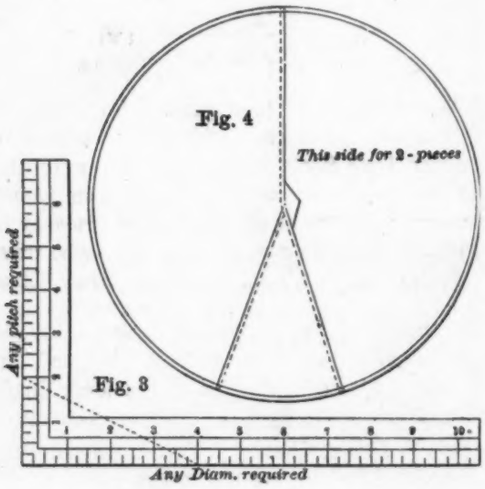
Mark around your square, as Fig. 1, f d g. Do not move the square, but mark one-half the diameter of



large end (as c). Mark from d to e the depth of the vessel; now move square down to e, draw line and mark one-half the diameter or small end, as e b. Draw line from c to b until it crosses line at a. Now set compass at a and b, draw circle h; set compass at a and c and draw circle i. Draw line j, divide the circumference into any number of pieces, and take a strip of tin and measure on the line h. Draw line to center, add for seams, wire and burr. See figures 1 and 2. Any thing flaring can be cut by this method.

HOW TO CUT A PITCHER COVER.

Place the square in same positions as in Fig. 3. Suppose you want the pitch or raise to be two inches, and



the hoop or vessel is eight inches in diameter. Set one point of the compass at two inches on the short arm of square and the other point at four inches, just half the diameter of vessel. Draw circle, as Fig. 4, draw line from center; set compass one-seventh of diameter of the vessel, and stop eleven times for a cover in two pieces, and twenty-two times for one piece; add circle for burr, and add for seam just what your edge will take up, or your cover will not be round. To give it any pitch or raise, set compass at 1, 2, 3, 4, 5, etc., on the square. The short arm of square gives the required rise, the long arm the diameter. Always use half the diameter, divide twenty-two for any number of pieces.

A TINNER'S DAILY WORK.

To The American Artisan.

Here is a fair picture of the work of the country tinner: He works more hours in the day than the farmer, and more days in the week than the motorman. He frequently begins the day with the lark, and goes off duty with the night watchman. His daily routine affords more surprises and fewer leisure moments than that of a mule-driver. His program is subject to more changes than that of a vaudeville show, and he is called upon more frequently and unexpectedly to alter his plans and decide points of diplomacy than is a South American president.

This may sound like hyperbole, but I believe a close analysis will show that every statement made is gospel truth. Every night the tinner is given a batch of work to be done the first thing in the morning. Saturday night there are always jobs to be finished up on Sunday. As fast as one job is done another bobs up. I never saw a day's program yet for a day's work that was not broken into by rush orders. Talk about altering plans—what craftsman has not had a meddlesome farmer standing around to boss the job and suggest how it should be done, and has not diplomacy been needed when the farmer has suggested one means of procedure and the hired man another? What do you think of it, boys?

"Rhody."

Newport, R. I., April 20, 1902.

NOTES AND QUERIES.

CREAM SEPARATORS.

From "L. M.," Ruthven, Minn.:

Would like names of manufacturers of cream separators?

Ans.—Arras Cream Separator Co., Bluffton, O.; Galesburg Cornice Works, Galesburg, Ill.; Graves Sheet Metal Works, Kansas City, Mo.; Lawrence Mfg. Co., Toledo, O.; Seither & Cherry Co., Keokuk, Ia.

SOLDER FOR ALUMINUM.

From A. F. Schlemmer, Rock Valley, Ia.

Would like to have receipt for soldering aluminum.

Ans.—A good solder for aluminum ware is made of zinc, aluminum and copper in the proportion of 90, 6 and 4. The proportions of other solders for aluminum ware are as follows: 80 parts zinc, 12 parts aluminum, 8 parts copper; 88 parts zinc, 7 parts alumi-

num, 5 parts copper; 94 parts zinc, 4 parts aluminum, 2 parts copper; 85 parts zinc, 9 parts aluminum, 6 parts copper. You first prepare an aluminum copper alloy, which is to be mixed with a requisite amount of zinc. Then you melt the copper, and then gradually introduce into same the aluminum; divide it into 3 or 4 portions, making a perfect mixture by stirring. After the last of the aluminum has been put in, throw in the zinc, and with it some fat or resin. Then stir the mass rapidly, and directly remove the crucible from the fire and pour the aluminum into iron molds which have been rubbed with benzine or cold tar oil.

HAND CARTS.

From Grant Stricker, Battle Creek, Mich.:

Where can I secure two and three wheel hand carts with iron wheels?

Ans.—Milo G. Remington, Bennington, Vt.; D. J. C. Arnold, London, O.; Lansing Wheelbarrow Co., Lansing, Mich.; Kilbourne & Jacobs Mfg. Co., Columbus, Ohio; A. Meinecke & Sons, Milwaukee, Wis., and R. W. Whitehurst & Co., Norfolk, Va.

ITEMS.

C. S. Neuberger will shortly open a tinshop at Wilmar, Minn.

J. M. Ackert, a Charlevoix, Mich., tinner, is moving his tinship in that city.

L. A. Lewis, a Cortlandt, N. Y., tinner, was a victim of a serious fire on April 13th.

Frank H. Russell succeeds Carlson & Russell in the tinware business at Clare, Mich.

The New England Enameling Co., capitalized at $50,000, are a new Middletown, Conn., concern.

It is said that the American Can Co. have absorbed the plants of the Pacific Coast Canners' Association.

Pugh Bros., Manchester, Iowa, are erecting an addition to their store, which will be used as a tinshop.

The Marietta Sheet Steel & Tinplate Co., Marietta, Ohio, expect to be ready to begin operations by Aug. 1st.

F. S. Wheeler, secretary and treasurer of the American Can Co., has been made auditor of the same concern.

The Milwaukee Enameling & Electro-Plating Co., 396-406 Sixth avenue, Milwaukee, were victims of fire on April 17th.

Harvey Henry, for a number of years a manufacturer of tinware at Pittsfield, Mass., died in that city on April 13th in the 71st year of his age.

The Monongahela plant of the American Tin Plate Co., located at Pittsburg, Pa., was damaged by fire on April 19th to the extent of $10,000.

The American Can Co. are, it is said, putting into effect plans which will undoubtedly work a revolution in the process of can making. The parties interested in this firm have incorporated the American Solderless Can Co., which controls the American right for the Maconachie patents on can making machinery. These machines automatically draw a flat tin plate into the form of a can, and after it has been filled seal it. The can, when automatically sealed and complete, is composed of but one piece of metal.

W. J. Burton & Co., Detroit, Mich., send us their latest metal ceiling catalogue. The patterns shown in this volume are new and original and admit a high degree of ornamentation. Their plates are re-sheared on all sides after being stamped, consequently they will line perfectly straight and regular and will make it immaterial which way the plates are lapped.

Their prices on metal ceilings include metallic buttons for all ceiling plates, which are not otherwise marked, and small ceiling nails for fastening ceiling and side-wall plates, not requiring buttons; also wood brackets for such moldings and cornices as require them. One of these catalogues will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

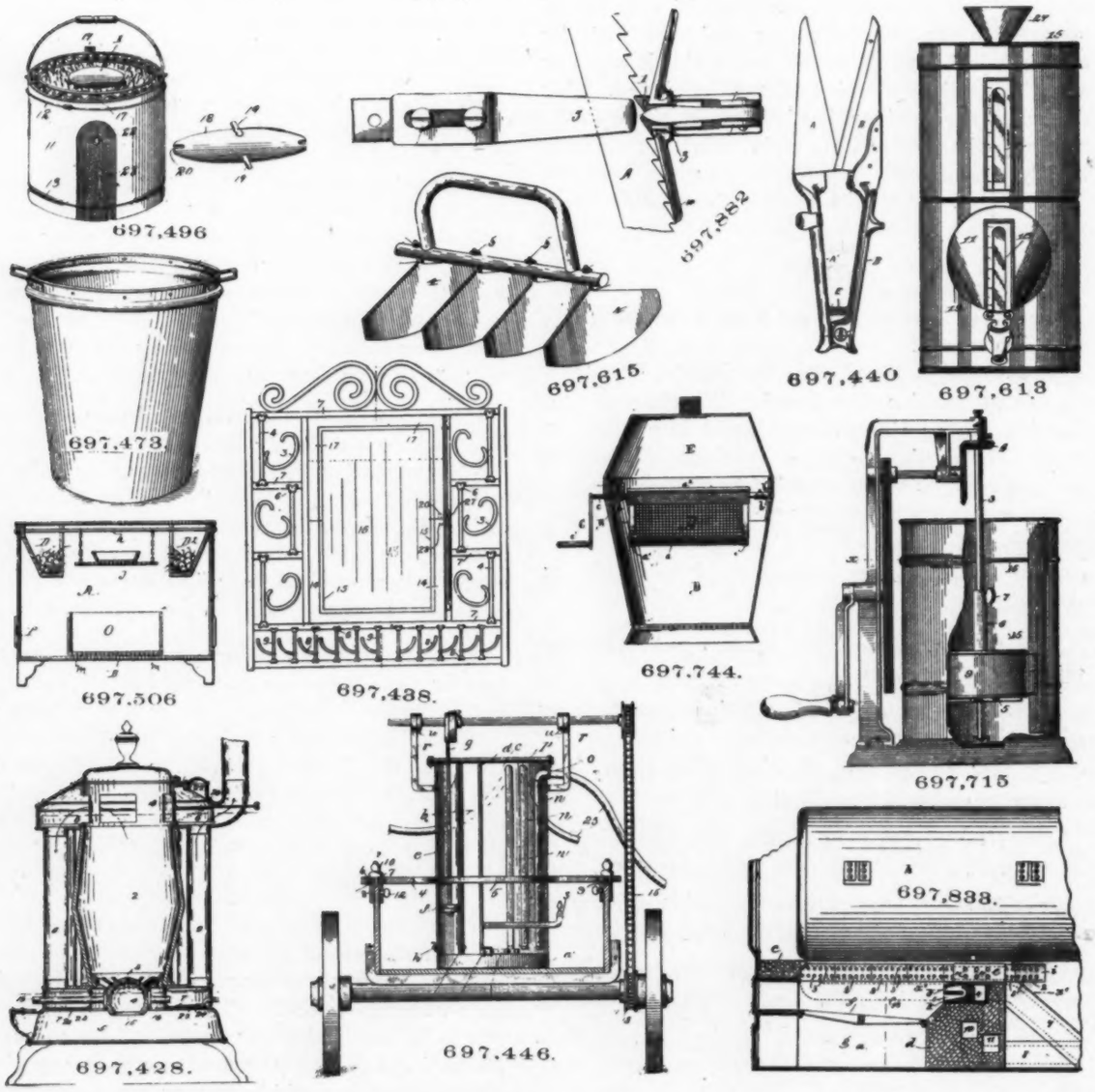
The American Tin Plate Co. now have twenty-eight plants with 264 mills in operation. Their weekly output is 232,320 hundred pound boxes. At each turn fifty-five boxes are made, and there are sixteen turns each week. The independent manufacturers have ten plants in operation with a weekly capacity of 46,640 boxes. There are six plants with thirty-nine mills with a capacity of 34,320 boxes in course of construction.

J. M. & L. A. Osborn, Cleveland and Columbus, O., send us some handsome enameled blotters, calling attention to the fact that they carry a very large and complete line of roofing plates, including Osborn charcoal iron old style, Osborn's guaranteed old style, Golden Star old style, Osborn's old method, Osborn's old style ponty, the Osborn's roofing, Star old style, Court old style, Nava re-dipped, Santiago old style, Neostyle, old style re-dipped, Salta, Eureka, Atlas and Akerue.

The Illinois Roofing and Supply Co., 23 Lake street, Chicago are getting out some very pretty advertising blotters showing a colortype picture of three little girls under an umbrella. The inscription of this picture is "Come Under Our Umbrella," but to our uninitiated eye there does not appear to be any available room, and it would be both rude and unchivalrous to expose any of the three maidens shown to the horrors of a colortype rainstorm through a selfish greed in accepting their invitation. This blotter incidentally advertises Pecora asbestos furnace cement, Pecora "iron" stove cement and Pecora roofing cement.

The Lisk Mfg. Co., Ltd., Canandaigua, N. Y., are to be congratulated on the efficient system of fire protection they have in use in their large tinware factory. On the noon of April 16th a kettle of oil in the "leading" department of their plant caught fire and the local fire department rushed to the scene of the action. However, when they arrived there, the blaze was under control, owing to the promptness of the company's employes in putting into operation the recently installed system of fire protection. The interior of the building was slightly damaged, but the loss is fully covered by insurance. Of course, this trifling loss will not affect the promptness of the company's shipments in any way.

NEW PATENTS.



697,833—Furnace. George S. Gallagher, New York, N. Y.

697,428—Heating Stove. Theodore M. Anderson, New Whatcom, Wash.

697,506—Stove for Heating, Cooking and Baking. Robert C. MacCullough, Des Moines, Iowa.

697,446—Sprayer. William E. Chandler, Elcampo, Texas.

697,715—Churn. James M. Harper, Chicago, Ill.

697,613—Cream-Separator. Azro D. Ellis, Minneapolis, Minn.

697,438—Hat and Coat Rack. Mark Braymer, Philadelphia, Pa.

697,744—Ash Sifter and Receptacle. John M. Olsen, Chicago, Ill.

697,440—Shears. Chapin C. Brooks, Hallowell, Me.

697,473—Garbage or Refuse Can. Edward R. Gilman, New York, N. Y.

697,496—Shipping Vessel for Ice Cream. Frederick C. Klotz, Louisville, Ky.

697,615—Hand Chopping Knife. Alice A. Flagg, Jeffersonville, Vt.

697,882—Saw-Set. Robert E. Poindexter, Indianapolis, Ind.

A BRILLIANT CLERK.

A certain hardware store in this city recently employed as a clerk a genuine 18-karat genius. They did not know it at the time, but they are firmly convinced of it now.

A few days ago a country customer came in to buy some powder to use on a hunting trip. The new man waited on him, and, not being thoroughly "on to the ropes," gave him blasting powder by mistake.

The next day the purchaser brought back the lumpy blasting powder to exchange for what he originally asked for. Here is where the new clerk's genius displayed itself. Instead of taking back the blasting powder on the spot he tried to argue the country customer into buying a coffee grinder, with which the blasting powder might be ground to the requisite fineness.

Sad to relate he failed, but he made a great hit with his employers, nevertheless.—Syracuse Herald.

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INCOMES OF SUCCESSFUL INVENTORS.

Some of the largest fortunes appear to have been derived from the invention of trivialities and novelties, such as the once popular toy known as "Dancing Jim-crow," which for several years is said to have yielded its patentee an annual income of upward of $75,000. The sale of another toy—"John Gilpin"—enriched its lucky inventor to the extent of $100,000 a year as long as it continued to enjoy the unexpected popularity that greeted it when first placed upon the market. Mr. Plimpton, the inventor of the roller skate, made $1,000,000 out of his idea, and the gentleman who first thought of placing a rubber tip at the end of lead pencils made quite $100,000 a year by means of his simple improvement.

When Harvey Kennedy introduced the shoe lace he made $2,500,000, and the ordinary umbrella benefited six people by as much as $10,000,000. The Howard patent for boiling sugar in vacuo proved a lucrative investment for the capitalists who were able to remunerate the inventor on a colossal scale. It is estimated that his income averaged between $200,000 and $250,000 per annum.

Sir Josiah Mason, the inventor of the improved steel pen, made an enormous fortune, and on his death English charities benefited by many millions of dollars. The patentee of the pen for shading in different colors derived a yearly income of about $200,000 from this ingenious contrivance. It is stated that the wooden ball with an elastic attached yielded over $50,000 a year. Many readers will remember a legal action which took place some years ago, when in the course of the evidence it transpired that the inventor of the metal plates used for protecting the soles and heels of shoes from wear sold 12,000,000 plates in 1879, and in 1887 the number reached a total of 143,000,000, which realized profits of $1,150,000 for the year.

The lady who invented the modern baby carriage enriched herself to the extent of $50,000; and a young lady living at Port Elizabeth, South Africa, devised the simple toilet requisite, known as the "Mary Anderson" curling iron, from which she derives royalties amounting to $500 a year. It was the wife of a clergyman who designed an improvement for the corset and made a fortune out of it. The gimlet-pointed screw, the idea of a little girl, brought many millions of dollars to the clever inventor. Miss Knight, a young lady of exceptional talents, was gifted with wonderful mechanical powers, as will be seen by the complicated mechanism of her machine for making paper bags. We are told she refused $50,000 for it shortly after taking out the patent.—Ex.

NEW SOLDER FOR ALUMINUM.

Hjalmar Lange, a Danish inventor, has taken out a patent in Denmark for a process of soldering aluminum which consists of first coating the aluminum surfaces to be soldered with a layer of zinc. On top of the zinc is melted a layer of an alloy of one part aluminum to two and one-half parts of zinc. The surfaces are placed together and heated until the alloy between them is liquefied.—Lead and Zinc News.

Trade Report.

CHICAGO IRON MARKET.

The Chicago market for pig iron is decidedly bullish and important advances in the price of this staple have been made the past week. While the old quotation of $21@22 still holds for Lake Superior, Charcoal, Local Coke Foundry Nos. 1, 2 and 3, has advanced 50c a ton. Local Scotch Foundry No. 1 has jumped to $20 a ton, as has also Jackson County Silveries. Ohio Strong Softeners are $22@22.60. Malleable Bessemer is $19.50 instead of $19.

Every day it appears to be harder to secure iron for prompt shipment, as it is very scarce indeed, and the various iron houses are buying back iron from such customers as are willing to dispose of purchases made earlier in the season.

The tonnage of sales for the past week has been high.

There have been several inquiries for large amounts of iron, the most notable being one for 5,000 tons of Southern Foundry. Nearly all the transactions in iron have been limited to car load lots, or 15 hundred ton lots, and it is with great difficulty that foundry men are able to get this much.

A large number of inquiries have been made for iron for 1903, until there are no sales to report at this date.

The malleable foundries are making urgent inquiries for iron and though the buying has been slack the past week, delay on account of the advanced prices it is expected that such a movement will set in shortly.

COPPER.

Ingot copper is quiet and rather easy at 11¾@12c for lake, in round lots; electrolytic, 11¾@12c; casting, 11½@11¾c. London was cabled steady: Standard copper, closing spot, £52 15s; sales 450 tons; futures, £52 15s; sales, 200 tons.

Manufactured copper is unchanged at 17½@18c for both sheets and bars.

TIN.

Tin is somewhat easier: Spot, 27.80@28c; futures, 27.25@27.75c; jobbing, ¼@½c more. London was last cabled weak at £126 for spot and £122 15s for futures.

TIN PLATES.

Tin plates are steady and unchanged: Melyn, $6.50 @7.25; Alloway, $6@6.50; coke, $6.25@7; additional X, $1.50@1.75 more.

ANTIMONY.

Antimony is still unchanged: Cookson's, 9¾@10c; Hallett's, 8@8⅛c; United States Star and other brands, 7¾@7⅞c.

NICKEL.

On nickel the price continues firm at 50@60c, as to size of order.

PLATINUM.

The firm position of platinum continues good, owing to the quick demand for consumption and short supply: New York, $19.50 per oz; here, small lots, $1 to $2 more.

LEAD.

Lead continues quiet: Round lots, 4.12½c; jobbing, 4½@4¾c; London, £11 11s 3d; St. Louis, 3½@4c. Manufactured: Pipe, 6½c; sheet, 7¼c; tin pipe, 50c; tin-lined pipe, 12½c; old lead, in exchange, 3¾c; tea, 3¼c.

SPELTER.

Spelter is reported firm: Round lots, 4.40@4.45c; jobbing, ¼@½c more; sheet zinc, cask lots, 6½ @6¾c; small lots, 7¼@7½c. St. Louis market is steady at 4.15c; London, firm, £18.

QUICKSILVER.

Quicksilver is unchanged, with the New York price at $48 for large orders; small orders more: San Francisco, $47.50@48 for domestic orders; export, $44; London, £8 15s.

ALUMINUM.

Aluminum is steady at 33@37c for ingots. No. 1, per lb; No. 2, 31@34c; rolled sheets, 40c and up.

WINDOW GLASS.

The glass market is still reported strong: Single, 89 and 5 per cent off; double, 89 and 10 per cent off; plate, 80 per cent off.

WIRE NAILS.

The price of wire nails remains unchanged at $2.20 for single carload lots and $2.25 to $2.30 for small lots.

CUT NAILS.

There is a good demand for cut nails, which are quoted at $2.30 in small lots.

BARB WIRE.

Painted barb wire is quoted at $2.80 and galvanized at $3.10 in single carload lots, with 5 cents extra for small lots.

PLAIN WIRE.

Plain wire is quoted at $2.20 in small lots from stock.

BARS.

The mills report a satisfactory amount of new orders, mostly, however, from small consumers, who buy from carload lots up to 500 tons. The prices of bars are firmly held at 1.75c to 1.85c, for steel, Chicago; 1.95c for iron, Chicago; 2.15c for hoops, Chicago. Steel, out of store, 2c to 2.10c; iron, 2.10c to 2.25c; hoops, 2.30c.

SHEETS.

The demand for sheets, both black and galvanized, is very brisk, and Nos. 10 to 16 have advanced $3.00 a ton. We quote: No. 27 black, mill shipments, Chicago delivery, 3.15c to 3.20c; galvanized, 4.45c; out of store, No. 27 black, 3.45c to 3.50c; galvanized, 4.70c.

STRUCTURAL STEEL.

The only sales reported are through jobbers, and the scarcity of this material in other centers is shown by the fact that a Louisville firm of architects had to come to this market for 150 tons of steel for a building to be erected in that city. We quote mill shipments, carload lots, as follows: Beams, 15 inches and under, 1.75c; 18 inches and over, 1.85c; structural angles, 3x3 to 6x6, 1.75c; over 6x6, 1.85c; angles, channels and tees, smaller than 3 inches, 1.85c base; plates, 1.85c; lots from store, tees, 3c minimum; beams and channels, 3c minimum with cartage charges.

RAILS AND TRACK SUPPLIES.

The demand for both light rails and track supplies is very good, but both local manufacturers are sold up for several months on these materials. We quote standard sections, $28; light rails, 45 pounds, $33; 12 pounds, $40, with regular differentials for intermediate sizes; out of store, $45 to $50; splice bars, 2c; spikes, carload lots, $2.35c; track bolts and hexagon nuts, 3.10c to 3.25c; out of store, 3.50c; square nuts, base, 2.95c; out of store, 3.10c.

BILLETS.

A few sales of billets, in lots of 100 tons and thereabouts, are reported. Bessemer billets are quoted at $38; open hearth, $40.

MERCHANT STEEL.

Since the implement manufacturers have about finished placing their orders for iron and steel, the buggy manufacturers are coming forward with contracts for steel tire for their needs during the next season. We quote mill shipments, Chicago delivery, as follows: Smooth finished tire steel, 1.95c to 2c; open-hearth spring steel, 2.45c to 2.60c; sleigh shoe, 1.75c to 1.80c, flat sizes; concave and convex, 2c; out of store, 2.15c; cutter shoe, 2.40c to 2.60c; machinery steel, 2.15c to 2.25c, base; plow steel, 2.50c and upwards, according to quality; toe calk, 2.25c to 2.35c; out of stock, 3c to 3.10c; ordinary tool steel, 6c to 7c; specials, 13c and upwards; less than carload lots, 5 per cent to 10 per cent higher; cold rolled shafting, carload lots, 50 per cent off, Chicago; less than carload lots, 45 per cent off, Chicago.

CORDAGE.

Sisal rope, on the basis of 7-16 inch and larger, is quoted at 9½ to 10 cents per pound; manila rope, on the same basis, 13½c per pound, with a rebate of ¼ cent per pound in large quantities.

WHITE LEAD IN OIL.

White lead in oil, in lots of 500 pounds or over, 6 cents, in lots of less than 500 pounds, 6½c per pound.

LINSEED OIL.

City raw linseed oil is quoted at 63 to 64 cents per gallon; out of town raw, 62 to 63 cents per gallon.

SPIRITS TURPENTINE.

Southerns, 46 cents to 46½c per gallon; machine made barrels, 46½ to 47 cents per gallon.

MILK CANS

The latest prices of milk cans in dozen lots are as follows: Iowa Pattern, 20 quart, $18.25; 32 quart, $20.25; 40 quart, $21.25. Elgin Pattern, 32 quart, $20.60; 40 quart, $24.25; Jersey Pattern, 40 quart, $17.75; New Elgin Pattern, 32 quart, $20.00; 40 quart, $22.00; New York Pattern, 32 quart, $24.25, and 40 quart, $27.25.

BARN DOOR HANGERS.

Novelty check back barn door hangers in dozen pair lots are quoted as follows: 3 inches, $2.60; 4 inches, $3.90; 5 inches, $4.95, and 6 inches, $6.25.

CARPET STRETCHERS.

The latest quotations of Perfection carpet stretchers are $6.25 per dozen.

MAGNETIC TACK HAMMERS

No. 18 Magazine magnetic tack hammers are listed to-day at $4.75 per dozen; No. 19, without magazine, $2.25 per dozen.

HOLLOW AUGERS.

Stearns' No. 1 hollow augers have been advanced to $42.00 per dozen; Stearns' No. 3 are $33.00 per dozen, and Bonney's hollow augers are quoted at $10.00 per dozen.

SAD IRONS.

The latest price of extra polished sad irons is 3 cents per pound, or 4 cents per pound for nickel plated.

SOME OF THE STORIES HEARD IN THE STOCKYARDS DISTRICT.

The other day Dooley came down with a subscription paper to raise a collection, and he met Brannigan and said to him:

"Brannigan, I want yez to put yer name down here for foive dollars on this paper."

"Phwat should I be putting my name down for foive dollars on a paper loike that for? Do yez think it's money I'm made of? Phwat's it for?"

"Do yez know Murphy?"

"Phwat Murphy?"

"Phwy, the foreman up in the packing room."

"Big Tom, is it?"

"Well, we're taking up a subscription for him. You know he's buildin' himself a new house, and we want to buy him a prisint for the parlor."

"Sure, hasn't he money enough to buy his own prisint?"

"Will, ye see, it'll be a good thing to stand in with him, because he's the boss up there. And, beside that, we're goin' to make him a foine prisint."

"Phwat is't you're goin' to buy him?"

"Well, we're goin' to buy him a chandelier for the front parlor."

"Will, I'll put my name down for foive dollars, but I'd loike to bet you tin dollars that when he gets it he won't know how to play on it."—Ex.

Quotations.

METALS.

FIRST QUALITY BRIGHT PLATES.

			Per Box.
IC	10x14		$7 50
IX	10x14		9 00
IC	12x12		9 00
IX	12x12		10 50
IC	14x20		7 50
IX	14x20		9 00
IXX	14x20		10 50
IXXX	14x20		12 00
IXXXX	14x20		13 50
IC	20x28		15 00
IX	20x28		18 00
IXX	20x28		21 00

COKE PLATES.

Cokes, 180 lbs	IC	20x28	10 00
Cokes, 200 lbs	IC	20x28	10 25
Cokes, 216 lbs	IC	20x28	10 50
Cokes, 216 lbs	IX	20x28	13 00

PIG IRON.

Lake Sup. Charcoal	$21 00@$22 00
Local Coke Fdy No. 1	19 50@ 20 00
Local Coke Fdy No. 2	19 00@ 19 50
Local Coke Fdy No. 3	18 50@ 19 00
Local Scotch Fdy No. 1	20 00@ 20 50
Local Scotch Fdy No. 2	18 50@ 19 00
Southern Coke No. 1	18 50@ 19 00
Southern Coke No. 2	18 15@ 19 15
Southern Coke No. 3	17 65@ 18 65
Southern Coke No. 4	17 15@ 18 15
Southern No. 1 Soft	18 50@ 19 65
Southern No. 2 Soft	18 15@ 19 15
Southern Gray Forge	16 90@ 17 90
Southern Silveries	17 65@ 18 15
Jackson Co. Silveries	20 00@ 20 50
Ohio Strong Softeners	22 00@ 22 60
Alabama Car Wheel	20 50@ 21 00
Malleable Bessemer	19 50@ 20 00

BLACK SHEET STEEL.

¼ in. 3-16 in. Nos. 8 and 10. per lb.	3 40
No. 12 per lb.	3 45
No. 14 per lb.	3 50
No. 16 per lb.	3 15
No. 18-21 per lb.	3 15
No. 22-24 per lb.	3 25
No. 25 26 per lb.	3 35
No. 27 per lb.	3 45
No. 28 per lb.	3 55

SMOOTH STEEL.

Wood's Smooth Steel, 15-17	3 30
" " " 18	3 40
" " " 20	3 50
" " " 22-24	3 60
" " " 25-26	3 70
" " " 27	3 80
" " " 28	3 90

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel. "A" $10 20, "B" $9 20

GALVANIZED IRON.

Per 100 lbs.

26 Ga.—24, 26, 28 and 30 in. x 8 ft.	$4 40
26 Ga.—36 in. x 8 ft.	4 70
27 Ga.—24, 26, 28 and 30 in. x 8 ft.	4 70
27 Ga.—36 in. x 8 ft.	5 00
28 Ga.—24, 28 and 30 in. x 8 ft.	5 00
28 Ga.—36 in. x 8 ft.	5 35

HOOP IRON.

¾x22	¾x20	¾x20
$3 20 100lbs.	$3 00 100lbs.	$2 90 100lbs.
1x20	1¼x19	1½x19
$2 80 100lbs.	$2 75 100lbs.	$2 65 100lbs.

PAINTED CORRUGATED IRON.
8-ft. sheets, 2½x28 Ga. per sq., $2 60

SOLDER.

Guaranteed ¼&½ per lb.	19c
Commercial ¼&½ per lb.	18c
No. 1	16c

SHEET ZINC.

600 lb. Casks, base 6½c per lb.

COPPER.

Copper base, 20c

TIN PIGS AND BARS.

Banca, pigs, per lb	28¼@28½c
Straits pigs, per lb	28@28¼c
Straits in bars, per lb	28¾@29c

LEAD.

American Pig	$4 60@4 62½c
	5½@ ¼c

HARDWARE.

QUOTATIONS.

(The quotations given below represent the current hardware prices. They are not given as manufacturer's prices, and manufacturers should not be held responsible for them. Manufacturers sometimes name higher figures than those quoted for goods; they are not always selling at the price quoted, but goods are being sold at the figures printed below by manufacturers and jobbers.)

ADZES—CARPENTER'S.

Hunt's	25%
White's	12½%
Coopers'—Barton's	12½%
White's	12½%
Ship—Barton's	12½%
White's	15%
Hunt's	25%

AMMUNITION.

CAPS, PERCUSSION—per 1000—

F L Waterproof, 1 lbs	50c
G D	40c
Eley's	52c

CARTRIDGES.

Peters Rim Fire Ctgs	50&3%
Peters Cent Fire, Pistol & Rifle	25&3%
Peters Cent Fire, Military and Sporting Ctgs	15&5%
Peters Blank Ctgs, except 22 and 32, an additional 10% from above discount.	
Peters Blank Ctgs. 22 cal	10&10%
Peters Blank Ctgs. 32 cal	10&10%
Peters B B Caps, Round ball	$1 18
Peters B B Caps, Conical ball	$1 90
U. M. C. Rim Fire Ctgs	50&3%
U. M. C. Cent. Fire, Pistol & Rifle	25&3%
Winchester Cent. Fire, Military and Sporting Ctgs	15&8%
U. M. C. Blank Ctgs. 22&32 cal	10%
U. M. C. Blank Ctgs, 38 cal	50-10-10%
U. M. C. B B Caps, Round Ball	$1 75..25&10%
U. M. C. B B Caps, Con. Ball	$2 00 net
U. M. C. Rim Fire Shot Ctgs	50&15&3%
U. M. C. Cent. " " "	25&10&3%

PRIMERS.

Berdan Primers	$1 00
Peters Primers	1 10
U. M. C. Primers	1 08
Winchester Primers	1 08

SHELLS.

Peters Empty Paper Shells, 10 and 12 gauge. League	25&5%
Peters Empty Paper Shells, 16 gauge. League	20&5%
Peters New Victor Nitro Shells	15c
Ideal	33⅓&10%
Peters Loaded Shells. League and Semi-Smokeless	40&5%
Peters New Victor Loaded Shells, with King's Smokeless	40&10&10%
Ideals Loaded with King's Smokeless	40&10&10&5%
U. M. C. New Club, 16 gauge	20&10%
U. M. C. New Club 10&12 gauge	33⅓&5%
U. M. C. New Club	33⅓&5%
U. M. C. Nitro	18%
U. M. C. High Base	18%
U. M. C. Trap	33⅓&10&7%
Winchester Blue Rivals	20%
Winchester Yellow Rivals	20%
Winchester Repeater	18%
Winchester Leader	33⅓&10&7%
U. M. C. Loaded Shells, Black Powder	40&5%
Winchester Loaded Shells, Black Powder	40&5%
U. M. C. Smokeless	40&10&10&5%
Winchester Smokeless	40&10&10&5%

GUN WADS—per 1000.

Peters Gun Wads	20&5%
U. M. C. Gun Wads	20&5%

POWDER.

King's Quickshot Powder; Kegs $4.00; ½ kegs $2.25; ¼ kegs $1.25.
King's Semi-Smokeless 20&5%
King's Smokeless 25, 10&10
Austin Quickshot Powder, Kegs $4.00; ½ kegs $2.25; ¼ kegs $1.25.
Dupont Smokeless, Sporting, 25, 20&10c

SHOT.

Dropshot, sizes smaller than B, 25-lb. bags, per bag	$1 35
Drop shot, B and larger sizes, 25-lb. bags, per bag	1 60
Buck Shot, 25-lb. bags, per bag	1 60
Chilled Shot, 25-lb. bags, per bag	1 60

ANVILS.

Trenton, 70 to 80 lbs	10c per lb
Trenton, 81 to 150 lbs	9c per lb

AUGERS AND BITS.

Snell's Boring Mach., Augers	65&10%
Snell's Car Bits, 12-inch twist	60&5%
Jennings' Pattern Auger Bits	50&10%
Russell Jennings' Augers and Bits	25&10%
Ship Augers, L'Hommedieu	15%
Dalbey Post Hole Augers, doz	$7 00
Irwin Bits	50%
Climax Bits	60&10%

AUGERS—HOLLOW.

Stearn's, No. 1 per doz.	$42 00
Stearn's, No. 3 "	31 00
Bonney's "	10 00

AWLS.

Brad, handled per doz.	$0 30
Brad, shouldered, assorted 1 to 4 per gr.	1 10
Peg, Pat. per gr.	40
Peg, shouldered per gr.	1 10
No. 1, Scratch, handled per gr.	4 50
No. 5, Scratch, socket per doz.	1 15

AXES.

Lippincott per doz	$7 25
Mann "	7 00
Second quality "	5 75
Beveled axes, add "	50
Broad—	
Plumb's Canada Pattern	50,10&5%
" Western "	40,10&5%
Hunt's per doz	30
White's "	12%
Hand—	
Hunt's "	40
White's "	12%
Ship—	
White's "	12%
Single Bit, Gladstone "	$7 50
Hubbard's S B "	7 25
Mann's S B "	7 25
Hunt's S B "	7 25
Lippincott's S B "	7 25
Robert Mann's D B "	9 75
Lippincott's D B "	9 75

AXLES.

Common iron, long arm, sq. bed	5¼
Common iron, long arm, sq. bed	6¼
Concord express, long arm, steel, square bed	6¾
Coach shape on above, ex. per lb	¼
Short arms on above, extra per lb	2
Welded axles on above, ex. per lb	1½
Half Patent, steel, Nos. 7 to 14	70
Half Patent, steel, Nos. 19 to 22	70
Extra, coach shape, 1¼ & smaller per set	15
Extra, coach shape, 1¼, 1⅛, per set	30
Extra, coach shape, l'g'r, per set	$1 00
National Wrought Steel Tubular, Self-Oiling—	
Standard Farm (1 to 5) and Special Farm (A1 to Af) less than ten sets	30%
Over ten sets	25

BALE TIES.

Single Crop 30-10&5%

BEAMS—SCALE.

Scale Beams, List Jan. 12, 82	
P. S. & W	40%

BELLOWS.

Blacksmiths'	70&5%
Hand, 8 in per doz.	$6 85
Molders', 10 in per doz.	9 00

BELLS.

COW.

Ordinary Goods	70&5%
High Grade	60&10%
Jersey	70&10%

DOOR.

Abbe's Gong	45%
Barton Gong	55%
Home, R & E Mfg. Co.'s	55&10%
Door & Pull, Sargent's	20&10&10%

HAND.

Hand Bells, Polished	60@60&10%
White Metal	55@55&10%
Nickel Plated	50@50&10%
Swiss	50&10%
Silver Chime	33⅓@33⅓&10%

MISCELLANEOUS.

Farm Bells lb.	2¾c
Steel, Alloys, Church and School	50&5%
Wilmot & Hobbs Mfg. Co. Gong	70%

BEVELS.

Stanley's rosewood Handled, T., new list	30%

BLOCKS.

Common Wooden	70%
Eddy Steel Tackle Blocks	60%&5%

BOLTS.

CARRIAGE, MACHINE, ETC.

Common, new list	60&5%
Norway Iron, $3.00, list Oct. 7, '84	75&10%
Bolt End, list Jan. 30, '95	50&10%
Machine, list Sept. 20, '99	65&50%

DOOR AND SHUTTER.

Ives' Patent Door	50&10%
Wrought Barrel, Stand'rd list	70&10%
Wrought Flush	40&5%
Wrought Square, Standard list	60, 10&5%

STOVE AND PLOW.

Plow	50&10%
Stove, list December 28, 1899	75&10%

TIRE.

Common, list Dec. 28, '99	75&5%
Eagle Philadelphia	72½%
Norway	75%

BOLTS AND NUTS.

	Discount
Common Carriage Bolts, new list, Feb. 1, 1902	60&5%
Machine Bolts, with H. P. or C. P. Plain Nuts	65@7½%
Machine Bolts, with C. & T. Nuts	60@10%
Machine Bolts, without Nuts	65, 7½@10%
Machine Bolts, Blanks	65@7½%
Bolt Ends, with H. P. or C. P. Plain Nuts	65@10%
Bolt Ends with C. & T. Nuts	65%
G. P. Coach Screws	75@5%
Cone Point Lag Screws	75@5%
Skein Screws	75%
Forge Set Screws and Top Bolts	60%
Plow Bolts and Guard Bolts	60%
Washer Head Coach Screws	70@5%
Wagon Box Strap Bolts	70@10%

BORING MACHINES.

Upright, without Augers $2 75

BOXWOOD RULES.

No. 4	$11 00	New list 60%
" 12	16 00	
" 18	6 00	
" 26	11 00	
" 27	13 00	
" 29	4 50	
" 66	10 00	
" 66½	10 00	
" 67	6 00	
Boxwood, new list		
Ivory		35@5%
Lufkin's Steel		30%

BRACES.

Barber's	60@10%
Common Ball, American	$1 35@1 45
Fray's Genuine Spofford's	50@10%
Fray's No. 508 to 522	50@10%

BRACKETS.

Cast Iron Plain	50&10
Wrought Steel	70&10@75%
Bradley's	75@75&10%

BROILERS.

Wire 70&10%

BUTTS.

Bright Butts, Nos. 800, 802, 804, 806, 808, 810, 814, 816, 818, 820, 854	60@5%
Bright Butts, Nos. 826, 828, 829, 830, 832, 834, 836, 838, 840, 842, 843, 844, 845, 846, 848	60@5%
Bright Butts, Nos. 822, 822½, 823, 823½	67½%
Japanned Butts, Nos. 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 726, 727, 728, 729, 730, 731	50%

CAGES—BIRD.

Enameled	50&10%
Brass	50&5%

CARPET STRETCHERS.

Perfection per doz., $6 25

CASTERS.

Acme Ball Bearing, No. 13, per set	44c
" " " " 15, "	44c
" " " " 16, "	53
" " " " 18, "	4.c
" " " " 19, "	41c
" " " " 20, "	48c
Bed	70%
Plate Casters	65&5%
Martin's Patent (Phoenix)	1

CHAIN.

American Coil Chain, Less than Cask lots:

3-16	¼	5-16	⅜	7-16	½	⅝
9.50	7.00	5.65	4.50	4.35	4.25	4.10

¾ 4.00c per lb.
Less than cask lots add 25c.

German Coil, list July 24, '97	60&10&5%
German Halter Chain, list July 24, '98	60&10&5%

Traces, Western Standard: 100 pair

6½—6-2, Straight, with Ring	29 00
6½—8-2, Straight, with Ring	33 00
6½—10-2, Straight, with Ring	36 00

Add 2c per pair for Hooks.
Twist Traces 2c. per pair higher than Straight Link.

Trace, Wagon and Fancy Chains Eastern list	50&10%
Jack Chain, list July 10, '93 Iron	50@10&5%
Brass	50@10&5%

Safety Chain.....60@10%
Gal. Pump Chain.....lb. 4¼@4½c
Covert Sad. Works:
Breast, Hitching and Rein Chains.....70%
Covert Mfg. Co.:
Breast.....35@2%
Halter.....35@2%
Heel.....35@2%
Rein.....35@2%
Stallion.....35@2%
Oneida Community:
Eureka Coil and Halter.....40@5%
Niagara Coil and Halters....40@5%
Niagara Cow Ties..45@5&45@10&5%
Am. Coil and Halters..40% new list
Am. Cow Ties.....35@5&40@5%
Wire Goods Co.:
Dog Chain.....60@10%
Universal Dbl-Jointed Chain...50%

CARPENTERS' CHALK.

Blue.....per gross, 60
Red..... " 55
White..... " 50
Common White School Crayon..... " 10

CHALK LINES.

In 20-Ft. Hanks:
No. 12, Twisted.....per doz., $0 22
No. 1, Braided..... " 24

CHISELS.

Mix..... } 70&10%
Witherby..... }

CHISELS—BOX.

Inches	10	12	14
Round.....per doz.	$2.10	$2.25	$2.75
Flat.....per doz.	2.85	3.60	4.20

CLAMPS.

No. 25 Adjustable.....50&10 to 60%
Carriage Makers.....60%
Hammer & Co.'s Malleable Iron, Patent Adjustable.....20&15%
Hammer & Co's Malleable Iron, Heavy Pattern Screw.....40&15%
Hammer & Co.'s Malleable Iron, extra heavy.....40&15%

CLEANERS.

Pot, Wire.....per doz. $0 45

CLEVISES.

Malleable.....per lb. 4½c

CLEAVERS.

Beatty's.....dis 40
White's.....dis 15

AJAX FAMILY CLEAVERS.

	6in.	7in	8in
Per dozen.....	$5.50	$5.75	$6.25

CLIPPERS.

E. H. Hotchkiss Horse Clippers
No. 10.....per doz. $18 00
No. 30..... " 15 60
No. 22..... " 13 80
No. 20..... " 13 20
No. 8..... " 10 80
H. Hotchkiss Toilet Clippers
No. 1.....per doz. 9 60
No. 101..... " 10 80
No. 203..... " 10 80
No. 300..... " 13 20
No. 500..... " 15 00

CLOTHES LINES—ROPE.

60 ft. Jute.....per doz. $0 90
72 ft. Jute..... " 1 00
60 ft. Sisal..... " 1 50
72 ft. Sisal..... " 2 00
60 ft Cotton..... " 1 25
50 ft Braided Cotton..... " 84

CLOTHES WRINGERS,

SEE WRINGERS.

COFFEE MILLS.

Enter. Mfg. Co., list Jan 17, '93...25%
Parker's.....50%
Arcade.....60&10%

CORKSCREWS.

Howes.....25&22%
Humason & Beckley.....40&10%
Empire..... 40%
Walker's..... net
Williamson's Regular..... 35%
Williamson's Forged Worm.. 35%

DOG COLLARS.

Pope & Stevens' List:
Brass (full assortment)....net price

DOOR CHECKS.

Blount.....30%
Eclipse.....30%
Corbin.....30%
Blum.....per doz. $6 50

DOOR HANGERS—BARN.

No. 3. Superb.....per doz. sets, $6 50
No. 4. Superb..... " " 7 75
Single Flange, D. B. Rail, ...per 100 ft. 1 60
Novelty Check Back, ... 3 in 4 in 5 in 6 in
Per doz. pairs, $2.60 $3.90 $4.55 $6.25

DRILLS AND DRILL STOCK.

Common Blacksmith's Drill, ...$1 50@$1 60
Bench Drills, Stearns .... 5 50& 6 00
Blacksmith's Self-feeding, each, ... $5 00&$7 00
Breast, Miller's Falls, ... per doz. $25.00 net for No. 12
Godell Automatic Drills, $9 50to$22 00

DRILLS—BIT STOCK.

Standard List.....60&5%@60%@10%

DRILLS—TWIST.

Standard List.....60@60&5%
Straightened taper shanks to 1½in.

DRIVEN WELL POINTS.

Driven Well Points.....76&10&5%

EAVE TROUGHS.

Galvanized Eave Trough and conductor pipe; 75-10-7.....¼%

EGG BEATERS.

Standard Co.:
No. 10 Cast Handle Dover pr gr $4 50
Dover Pattern.....per doz. 70
Mammoth Dover..... " 1 75
Genuine Dover..... " 90
No. 15 Extra Heavy Steel Handle.....per gr 21 00
Rival..... " 10 00
Taplin Mfg Co.:
No. 50 Small Family size pr gr 7 00
No. 100 Regular Fam size pr gr 7 50
No. 103 Regular Family size tinned.....pr gr 9 00
No. 150 Large Fam size pr gr 21 00
No. 150 Large Fam size tinned.....pr gr 24 00
Lyons Standard size....per doz 1 75
Surprise.....per gr 1 40
Wonder (S. S. & Co.).....pr gr 7 50

ENAMELED STEEL WARE.

"Lava" Enameled Ware, heavy .....50&10%
"Lava" Enameled Ware, light .....40&10%
Royal (N. E. & S. Co.)....70 to 70&10%
Peerless (L. & G. Mfg Co.)...70&10%
Agate Nickel Steel Ware.....50&20%
Pearl Agate Ware.....50&20%
Blue and White Ware.....60&10%
All White Ware (with blue border).....50&10&5%
Regal Steel Ware.....60&10%

FASTENERS, BLIND.

Zimmerman's.....50&10%

FAUCETS.

Standar Metal Key.....25%
B. & L. B. Co
Redlich's Wood Faucets.
Red Cedar..... } Net Prices.
Oak..... }
Cherry..... }
Cork Lined..... }
Metal Key..... }
Self Measuring:
Enterprise, per doz $36 00.....40%
Corked Lined.....70&5@70&10&5%
Metallic Key, Leather Lined .....70@70&10%
Red Cedar.....50@50&5%
B. & L. B. Co.
West's Lock, Open and Shut Key.....50&10%
John Sommer's Peerless Tin Key.40%
" " Boss Tin Key.....50%
" " Victor Metal Key 50&10%
" " Duplex Metal Key...60%
" " Diamond Lock.....40%
" " I X L Cork lined.....50%
" " Reliable " ..50&10%
" " Common " 70%
" " Chicago " 60%
" " O K " 50%
" " Perfection Cedar.....40%
Star.....60@60&5%
Star, Metal Plug new list..40@40&5%
Lockport Metal Plug, reduced list.....60&5%
McKenna Brass:
Burglar Proof, N. P.....35%
Improved, ¾ and ⅞in.....35%
Self Measuring:
Enterprise, per doz $36 00.....40%
Lane's, per doz $36 00.....40&10%
National Measuring, per doz $36 00.....40%

FILES AND RASPS

Great Western.....75&5%
J. B. Smith.....75&5%
Arcade.....75&5%
K. & F.....75&5%
American.....75&5%
McClellan.....75&5%
Eagle.....70.10&5%
Nicholson.....70&10%
Royal.....80@80&10%
Black Diamond.....70&10%
Disston's.....75&5%
Mill Files, 2d quality.....80&20%

FILE HANDLES.

Nicholson File Co.'s "Simplicity" File Handles...per gr $0.85 to $1 50

FORKS AND HOES.

Coke and Cottonseed Forks....40&5%
Coal Forks.....40&10%
Barn or Ice Forks.....40&5%
Beet Forks.....30&10
Ballast or Stone Forks.....40&5%
Tanners' Forks.....40&5%
Shaving Forks.....40&5%
Potato Scoop Forks.....40%
Oyster Forks.....40&5%
Sluice Forks.....40&5%
Heavy Mill, Manure or Street Forks.....65%
Steel Tar or Asphalt Rakes.....65%
Asphalt Hoes.....65%
Two Tine Hay Forks, Std. Size. 65&5%
3 Tine Hay Forks, Std. Size. .70&5&5%
4 Tine Hay Forks, Std. Size..66⅔@5%
Socket Four Tine Hay Forks...66⅔%
Socket Four Tine Manure Forks.65%
Socket Four Tine Spading Forks .....70&5&2½%
Three Tine Hay Header and Baler Forks.....65%
Four Tine Hay Header and Baler Forks.....61⅔%
Grain or Barley Forks.....70&10&10%
Four Tine Manure Forks.....70&10%
Five & Six Tine Manure Forks .....70&10%
Spading Forks.....70&10%
Potato Digging Forks.....65%
Stone Picking Forks.....65%
Garden Hoes.....75&10%
Meadow and R. I. Hoes....75%5&2½%
Sunbeam Meadow Hoes.....75&5&½%
Mortar and Street Hoes....75&10&5%
Planter Hoes, Regular Pattern .....70&30%
Tobacco Hoes.....75&20%
Cotton Hoes.....70&10&10&5&2%
Rough Fin, Shank Cot. Hoes.75&12½%
Cotton Chopper Hoes.....75&10&7½%
Ladies' Cotton Hoes.....75&10&7½%
Malleable Rakes.....70%
Toy Ladies' and Boys' Hoes.....70&10
Weeding Hoes and Rakes.....75%
Potato Hooks.....70&5%
Hop Hooks.....60&10&2¾%
Steel Garden Rakes.....70%
Steel Garden Rakes, Stamped blank.....65%
Turf Edgers.....60&5%
Steel Road Rakes.....60%
Special Mortar Hoes.....40&10&2½%
Harpers' No. 7 Mortar Hoes.....60%
Truck Hoes.....50&10&2%
Hoes.....65%
Special Hoes.....75&10&2%
Hoe Down Hooks.....75&10&2%
Warren Hoes.....60&5%
Laid Steel Edge Hoes.....25, 5&2%

GAUGES.

Marking, Mortise, etc....50% new list
Stanley R. & L. Co.'s Butt & Rabbet Gauge.....Net
S. & H. Cos.....75%

GIMLETS.

Gimlets.....60%

GLASS.

SEE WINDOW GLASS.

GLASS CUTTERS.

Woodward.....33⅓&10%
Red Devil.....per doz. $2 25
Bentley V. & T. Co.....40&10%

GLUE POTS.

Tinned.....25%
Enameled.....35%

GLUE.

Eagle, Liquid.....40%
LePage's, Liquid—
List "A".....37½%
List "B".....33⅓%
List "C".....25%
B Amber, bulk.....per lb 9¾c
A White, bulk.....per lb 12¾c
H. S. Amber, bulk.....per lb 17c

GREASE, AXLE.

Fraser's.....$9 50 gr
Baum's Castorine.....Net

GRINDSTONES.

Schofield's Bi-Treadle Grindstones.....each, $3 10
Schofield's "Auto"..... " 3 35

GRINDSTONE FIXTURES.

Stowell's.....Net
Reading Hardware Co.....Net

HAMMERS.

F. R. Plumb's A. E. Nail.....40&10%
Bell Face.....40&10%
Brad.....40&5%
Farriers.....40&5%
Shoe.....30&5%
Riveting.....40&5%
Blacksmith's.....50&10%
Prospecting.....50&10%
Calumet Nail.....per doz., $3 40
Engineer's.....50&10%
Machinist's Ball Pein.....50&10%
S. & H. Co.'s No. 20,...per gross, $5 25

HAMMERS—MAGNETIC TACK.

No. 18, Magazine.....per doz. $4 75
No. 19, Without Magazine..... 2 25

HANDLES—IRON, WROUGHT OR CAST—DOOR OR THUMB.

			Dis
No. 0.....	per doz	$0 90	30
No. 1.....	"	1 00	
No. 2.....	"	1 18	
No. 3.....	"	1 35	
No. 4.....	"	1 50	
Bronze iron drop lat.,	per doz net	$1 22	
Japanned store door.....	net	1 22	
Barn door No. 5.....	"	1 63	
Chest and lift.....	dis	30	

Wood—

Saw and plane.....dis 40&10%
Hammer, hatchet, axe, etc. " 40&10%
Brad awl.....per gro. 2 25
Hickory firmer chisel.....
Apple firmer chisel.....
Socket firmer chisel..... } ..25
Socket framing chisel.....
File.....per gro. $1 00
Auger, assorted..... " 4 50
Hoe, rake, fork, etc.....50%
Cross Cut Saw—
Atkins' No. 1.....per pair 24c
" No. 3..... " 18c
" No. 6..... " 11c
Climax..... " 11c
Common loop..... " 10c

HANGERS.

Hangers.....40%

HATCHETS.

American Axe and Tool Co..... }
Blood's..... }
Hunt's..... }
Hurd's..... } 40&10% to 40&10 &5%
Mann's..... }
Underhill's..... }
C. Hammond & Son.. }
Fayette R. Plumb... }

HAY AND STRAW KNIVES.

Lightning.....$5 50
Lightning Patterns..... 5 25

HINGES.

BLIND AND SHUTTER.

Surface Gravity Locking Blind: (Victor; National; 1868 O. P.; Niagara; Clark's O. P.; Clark's Tip; Buffalo).

No.	1	3	5
Doz pair.....	$0 90	2 05	4 08

Mortise Shutter:
(L. & P., O. S., Dixie, &c.)

No.	1	1½	2	2½
Doz. pair.....	$0 72	65	62	51

Mortise Reversible Shutter, (Buffalo &c.)

No.	1	1½	2
Doz. pair.....	$0 78	72	66

Parker.....70
North's Automatic Blind Fixtures. No. 2, for Wood $9 00; No. 3, for Brick $11 50.....10%
Reading's Gravity.....75&10%
Sargent's, No. 1, 3, 5.....66⅔&10%
Sargent's No. 11 & 13.....70&10%
Wrightsville H'dware Co.:
O. S., Lull & Porter.....55%
Acme, Lull & Porter.....75&10%
Queen City Reversible.....70&10%
Stenger's Positive Locking, Nos. 1 & 3..... 7 &10&5%
Shepard's Noiseless, Nos. 60, 65, 55 70&10%
Niagara, Gravity Locking, Nos. 1, 3 & 5.....75&7½%
1868, Old Pat'n. Nos. 1, 3 & 5 75&7½%
Tip Pat'n, Nos. 1, 3 & 5.....75&7½%
Buff. Gravity Lock., 1, 3, 5 75&7½%
Shepard's Double Locking, Nos. 20 & 25.....70&10%
Champion Gravity Locking, No. 75 75&7½%
Steamboat Gravity Locking, No 10 5&7½%
Pioneer, Nos. 060, 45 & 5½..75&7½%
Empire, Nos. 101 & 103.....70&7½%
W. H. Co's Mortise Gravity Locking No. 2.....80&10%
Stanley's Steel Gravity Blind Hinges.....per doz. sets 80c Net

GATE.

Clark's or Shepard's—Doz. sets:

No.....	1	2
Hinges with Latches.....	$2 10	@2 35
Hinges only.....	$1 60	$1 80 @2 90
Latches only.....	60	70 @5

New England:
With Latch.....doz..@$1 55
Without Latch.....doz..@$1 25
Reversible Self-Closing:
With Latch.....doz. @$1 80
Without Latch.....doz..@$1 45
Western:
With Latch.....doz. $1 40@$1 75
Without Latch.....doz. $0 95@$1 30
Wrightsville H'dware Co.:
Shepard's or Clark's Nos. 1 & 2. 65&2½%
Shepard's or Clark's No. 3..... 55&5%

SPRING.

Holdback, Cast Iron.....per gr $10 80
Non-Holdback, Cast Iron " 9 60
J. Bardsley:
Bardsley's Patent Checking....15%
Bommer Bros.:
Bommer Spring Hinges.....2½%
Bommer Ball Bear Floor Hing's.20%
Chicago Spring Butt Co.:
Chicago.....20%
Floor Hinge.....20%
Garden City Engine House.....20%
Keene's Saloon Door.....20%
Triple End.....20%
Hoffman Hinge & Foundry Co.:
No 70 & 80 Holdback Detachable $10 80
Lawson Mfg. Co.:
Matchless.....10%
Matchless Pivot.....15%
Payson Mfg. Co.:
Oblique.....50&10%
Stover Mfg. Co.:
Ideal No. 16, Detachable, per gr.....$15 00
Clover Leaf, No. 7.....per gr 10 50
New Ideal, No. 1..... " 10 50
New Ideal, Double Act'g " 13 20

WROUGHT IRON.

Strap and T Hinges, list Mar. 15, 1901:
Light Strap Hinges.....70%
Heavy Strap Hinges.....75&10%
Light T Hinges 66⅔%
Heavy T Hinges.....60&5%
Extra heavy Hinges 75%
Hinge Hasps.....60%
Cor. Heavy Strap.....75&10%
Cor. Ex Heavy T 75%
Screw Hook and Strap:
6 to 12in.....lb. 3¼c
14 to 20in.....lb. 3¼c
22 to 33in.....lb. 3 c
Screw Hook and Eye:
⅜ to 1in.....lb. 6¼c
⅝in.....lb. 7½c
⅞in.....lb. 9½c

MISCELLANEOUS.

Hoffman's Steel Spring Butt Hinges. .....40&10%
Hoffman's Offset Refrigerator Hinges.....40&10%

HOLLOWARE.

Stove Holloware Ground.....50&10%
Maslin Kettles.....70&10%

HOOKS.

Picture, No. 200.....&28c
Bush, common axe handle.....$7 00
Bush No. 1, Underhill..... 9 00
Bird Cage.....40%
Clothes Line.....60&10&10%
Grapling 50%
Ceiling .....60&5%
Coat and Hat.....60&5%
Harness.....60&1 &10%
Cotton, V. & B.....25%
Tassel and Picture.....50%
Wire, Coat and Hat, Gem.....net
Indestructible.....45%
Brass.....$2 00%
Hooks and Eyes, bright wire.....85%
Brass .....60&10&5%
Fish Hooks, American.....50%

HOSE—RUBBER.

Competition.....dis 70&10%
Standard.....70%
Extra.....60%
N. Y. Rubber Co.'s st'd.....50&10%
Banner 60%
Extra.....50%

IRONS—SAD AND POLISHING.

Mrs. Potts' No. 50 .....65c
Mrs. Potts' No. 55.....70c
Mrs. Potts' No. 60.....90c
Mrs. Potts' No. 65.....85c
Sad Irons, extra polished..per lb. 3c
Sad Irons, nickel plated... " 4c

KETTLES.

Maslin 66⅔%

KNIVES, DRAWING.

Braces, Peck's Adjustable P. S. & W.
8in.....per doz $15 00
10in ..... " 16 75
12in ..... " 18 00
Standard List.....70&5%
Adjustable Handle.....20%
Watrus.....30&10@40%
Cantelo's Folding.....25%
Improved Crown.....20%

KNOBS.

Base, 2½in. Maple, Rubber tip per gr.....$1 92
Door, Mineral.....per doz 84c
Door, per. Jap'd..... " 90c

LADLES.

Reading.....Net
Sargent's .....Net

LAMPS—HAND.

Hammer & Co.'s Malleable Iron..40%

LANTERNS—TUBULAR.

No. 0 Berger's "Ball Lift." per doz $9 50.....40&10&5%
No. 0 Berger's "Ball Lift," Galvanized, doz $10 50.....40&10&5c
No. 2 Berger's "Ball Lift," per doz $13 00.....40&10&5c
No. 2 Berger's "Cold Blast," per doz $16 00.....40&10&5c
No. 0 Berger's Dash Board, Japanned, Plain Globe, per doz, $13 00.....40&10&5%
No. 0 Berger's Dash Board, Japanned, Bull's Eye, per doz, $13 50 .....40&10&5%
No. 2 Berger's Dash Board Japanned, Plain Globe, per doz, $17 00.....40&10&5%
No. 2 Berger's Dash Board, Japanned, Bull's Eye, per doz, $17 50.....40&10&5%

BULL'S EYE POLICE.

3in Flash Light.....per doz $6 00
4¾in Regular..... " 3 50
3in Regular..... " 4 20

LAWN SPRINKLLRS.

C. B. G.....per doz. $2 10

LEMON SQUEEZERS.

Wood, Common.....per doz 72c
Wood, Porcelain Lined.... " $1 30
Boss Tinned Iron..... " 80
Iron, Porcelain Lined..... " 1 85
Jenning's Star..... " 1 75
King..... " 2 25

LOCKS.

Plate.....13½%
Slaymaker-Barry Co.....30&15%
Sargent & Co. .....40,40&10%
Yale Flat Key.....Net
L. & C. Round Key.....30&10%

Reading Harding Co.....20%
L. & C. Flat Key Latches.....33&10%
Stearn's Sliding Door.....Net $18 00

CABINET.

Eagle 13½%
Yale.....13½%
Eagle and Corbin Trunk.....5%

PADLOCKS.

Wilcock's.....50%
M. W. & Co.....50%
Russell & Irwin.....50%
Slaymaker Barry Co.....50%
Bohannon's Brass.....10%
Yale.....Net
Eagle.....13½%
Eureka, Eagle Lock Co.....20%
Corbin .....33⅓&10%

MALLETS.

Fiber Head Sterns.....30%
Hickory.....40%
Lignumvitæ.....40%
Tinners' Hickory and Applewood, per doz.....75@$1 50

MALLETS—Fibre Head.

	Small	Medium	Large
Per doz.....	$5 00	$5 75	$6 75

MAULS—WOOD CHOPPERS.

Lake Superior & Oregon Pattern, 75%

MATTOCKS.

Regular List.....70%

MILK CANS.

Quarts	20	32	40
Iowa Pattern, per doz....	$18 25	$20 25	$21 25
Elgin Pattern, per doz....	.....	20 00	24 25
Jersey Pattern, per doz....		.....	17 75
New Elgin Pattern, per doz....		20 00	22 00
New York Pattern, per doz....		24 25	27 25

MEAT CHOPPERS—HALE'S.

	11in	12in	13in
Per doz.....	$9 25	$11 50	$15 75

UNIVERSAL MEAT CHOPPERS.

	No. 1	No. 2	No. 3
Per doz.....	$10 75	$13 00	$18 00

No. 100 Enterprise Food Choppers.....per doz $9 75
No. 25 Ideal Meat Choppers, per doz..... 9 25

MOWERS, LAWN.

Cheap.....all sizes $2 25
Good.....all sizes $2.50@$2 75

	10	12	14	16in
High Grade....	$4 25	$4 50	$4 75	$5 00

Pennsylvania and Continental Net Price
Genuine Philadelphia Mowers:
Styles M. S., C., K., T., N....60&5%
Style A, (all steel).....70&5%
Style E, Low Wheel.....60&5%
Style E, High Wheel.....70&5%
Drexel.....Net prices
Gold Coins.....Net prices
Dewey's.....Net prices
All Day.....Net prices
XX, 12-in. wheel.....60%
Clippers.....50&10&10%

NAILS—CUT STEEL.

Rates .....per keg $2 30

NAILS—PICTURE.

Discount.....40&15&5%
Brass Head Picture Nails, discount..... 40&10%

NAIL PULLERS.

Giant Pattern, per doz.....$6 25

NAIL SETS.

Octagon.....per gross, $4 00
Round.....per gross, 4 00
Knurled handle, cup point, gro..$7 75

NUT CRACKERS.

No. 12, wood bottom.....$1 85

OILS.

Linseed, strictly pure....per gal. 65c

OILERS.

Tin or Steel.....50%
Zinc.....50&10%
Hammer & Co.'s Malleable Iron, new improved patent.....20%
Hammers' Malleable, old style.....50&10%

PADLOCKS.

Sargent Dog Collar.....70%
Sargent Wrought Steel and Brass.80%

PAILS.

			per doz.
Galvanized Sap Pails,		10 qts.....	$1 90
"	"	" 12 qts.....	2 20
"	Water	" 10 qts.....	1 90
"	"	" 12 qts.....	2 20
"	"	" 14 qts.....	2 50

PICKS

Drifting and Poll Picks.....60&10%
Drifting Pick Eyes.....60&10%

PINCHERS.

Carpenters', wrt. iron, pol. steel jaws.....25%
Blacksmiths'.....50%
P. S. & W.....6.@10%

PIPES.

GAS.

List March, 1900.
⅛ to ⅛ in., black.....discount, 52%
¼ to 12 " " ..... " 60%
⅛ to ½ " galvanized.. " 39%
¾ to 12 " " .. " 47%

PLANES.

Stanley Planes, new list.....20@25%
Standard Bailey Planes.....20@25%

PLIERS AND NIPPERS.

Swedish Side Cutting Pliers.....40%
" End " " 40%
" Diagonal " " 40%
Halls Compound Nippers.....40%
U. D. F. & T. Co., all kinds.....Net

PLUMBS AND LEVELS.

Common.....75%
Stanley's Wooden, new list.....70%
Disston's.....75%

POCKET LEVELS.

Stanley's Common, new list.....40%

POACHERS.

Buffalo Steam Egg No. 1, per doz. .....$7 20. 50&10%

POLISH.

POLISH—METAL.

U. S. Metal Polish Paste, 3 oz. boxes, per dozen, 50c; per gr. $4.50; ½lb boxes, per doz. $1.25; 1 lb boxes, per doz .....$ 2 25
U. S. Liquid, 8 oz. cans, per doz. $1.25; per gr..... 12 00
Pride of the Bar Metal Polish, per doz. $1.60, per gr..... 18 00
Universal Paste, 3 oz. boxes.....60%
Burnishine Liquid ½ pt. per doz.$1 60
Burnishine Liquid 1 pt. " 2 75

POLISH—STOVE.

Dixon's.....per gross, $5 75
Dixon's Black Lead.....per lb 6c
Dixon's Fine Plumbago..... " 9c
Dixon's Graphite Plumbago " 16c

POPPERS, CORN.

Round or Square, 1 qt. per doz., 70@75c
Square, 1½ qt.....per doz., 90c
Square, 2 qt.....per doz., 1 20

POST HOLE AUGERS AND DIGGERS.

Iwan's Patent Post Hole Auger..40%
Eureka Perfection Post Hole Digger, per doz.....$6 50
Atlas, per doz..... 8 00

POWDER.

IN CANISTERS.

Duck, 1 lb each.....45c
Fine Sporting, 1 lb each.....75c
Rifle, 1 lb each $1 00

IN KEGS.

Duck, 6½ lb kegs.....$2 50
Rifle, 6¼ lb kegs 1 25
Rifle, 12½ lb kegs 2 25
Rifle, 25 lb kegs 4 00

PRESSES—FRUIT AND JELLY.

Enterprise Manufacturing Co... 25c
Henis .....per doz. $2 10

PRUNING SHEARS.

No. 0, Henry Pattern..per doz. $1 90
No. 01, " " " 2 50
No. 14, " " " 3 15
No. 12, " " " 3 75
9 in., California Pattern, " 4 25
10 in., " " 5 00
No. 1, Buckeye..... " 6 50
No. 2, " ..... " 8 50
No. 3, Draw Cut..... " 15 50
No. 4, " ..... " 16 50

PULLEYS.

Hay Fork, Svl.Sd Eye, doz $1 60@$2 00
Hot House, Awning, etc 40%
Japanned Clothes Line 35%
Japanned Screw.....33⅓&5%
Japanned Side.....33⅓&5%
Sash (Auger Mortise):
Common Sense, 1¾ in...per doz. 23c
Common Sense, 2 in.... " 31c
Common Sense, Pat.... " 24c
Empire, 2 in..... " 27c

SASH PULLEYS.

Fox No. 3 or No. 7, 2½ wheel, ...30c per doz
Fox No. 9, 1¾ wheel.....36c per doz
Extra for plated Finish...30c per doz
Extra for Anti-Friction Bronze Bushing.....12c per doz

RAZORS.

Foz Razors No. 42.....per doz. $30 00
" " " 44..... " " 24 00
" " " 82..Platina " 24 00
Discount 40%
Rantankarus.....

REGISTERS.

List Sept. 1, 1901.
Black Japanned Registers, Ventilators, Faces and Borders, ...70&10&5%
White Japanned Registers, Ventilators and Faces....70&10&5%
Bronzed Finishes in Imitation of Gold, Silver, Copper or Bronze.....40&10%
Nickel plated.....50&10%
Electro-Plated in Brass, Bronze Copper or Oxidized Silver .....40&10%
White Porcelain.....40&10%
Solid Brass and Bronze Metal .....40&10%

All on Dew line.

RIVETS AND BURRS.

Copper Belt Rivets & Burrs, ...10&10&5%
Coppered Iron Rivets.....75c
Tinners Rivets.....75c

ROOFING SUPPLIES.

EAVE TROUGH.

Galvanized Eave Trough.75&10&7½%
Double Bead Galvanized Slip Joint Eave Trough....75&10%&7½%
Double Bead Galvanized Lap Joint Eave Trough....75&10%&7½%

GUTTERS

Roof Gutters, Galvanized.... .....75&10&7½%

PIPE.

Plain Round Pipe, Galvanized, Nested.....70.10-2½%
Plain Round Pipe, Galvanized, Unnested..... 70&10%

VALLEYS.

Valleys, in Rolls, IC and IX Terne.70%
Valleys, in Sheets, IC and IX Terne.....70%
Valley Galvanized Iron, Sheets .....60&20%
Valley Galvanized Iron, Rolls.60&20%

HOOKS.

Flashing Hooks.....10%
Wrought Conductor Hooks.....60%

CUT-OFFS.

Kuehn's Galv.....50%
Acme Galv.....10&10%
Acme Tin.....60&10%
Centennial Tin, new list.....50%

EAVE TROUGH HANGERS.

Eave Trough Hangers, Single and Double Bead, Imperial.....15%
Eave Trough Hangers, Single and Double Bead, Wire.....30%

ELBOWS.

One Piece, Conductor Elbows, Galvanized Corrugated.....60%
Adjustable Elbows, Tin.....60%

PREPARED ROOFINGS.

Imperial 2-ply Tarred Roofing complete.....$1 75 per sq.
Imperial 3-ply Tarred Roofing, complete.....$2 00 per sq.

ROPE.

	Per lb.
Manila, 7-16 inch diameter and larger.....	13½c "
Sisal, 7-16 in. and larger..	11 c "

SASH CORD.

Braided, Drab.....lb 30c
Braided, White, common.....lb 23c
Cable Laid Italian....lb, A 18c, B 19c
Common India.....lb 9c@9½c
Cotton Sash Cord, twisted.....12@16c
Patent Russia.....lb 12½@13c
Cable Laid Russia.....lb 13½@14c
India Hemp, braided.....lb 14@15c
India Hemp, twisted.....lb 10@12c
Patent India, twisted.....lb 10@12c
Pearl Braided, cotton.....lb 17@18c
Massachusetts, white.....lb 27c
Massachusetts, drab.....lb 24½c
Eddystone, Braided, cotton....lb 23c
Harmony Cable Laid Italian.lb 21½c
Ossawan Mills:
Crown, Solid Braided, white.lb 21½c
Braided, Giant, white.....lb 19½c
Peerless:
Cable Laid Italian.....19c
Cable Laid Russian.....17c
Cable Laid India.....14½c
Braided India.....21½c
Phœnix, white.....24c
Samson:
Braided, Drab Cotton.....lb 39c
Braided, Italian Hemp.....lb 38c
Braided, Linen.....lb 50c
Braided, White Cotton, Spot, lb..... 34c
Silver Lake:
A quality, Drab, 40c.....15%
A quality, White, 35c.....15%
B quality, Drab, 35c.....15%
B quality, White, 30c.....15%
Italian Hemp, 40c.....15%
Linen, 57½c.....15%

SASH LOCKS.

Ives, Patent.....60@60&5%
Harlew's Burglar-Proof Ventilating.....Net
Payson's Perfect.....Net
Payson's Signal (new list).....Net

SASH WEIGHTS.

Sash Weights, f. o. b., Chicago, per ton.....$30.00

SAWS.

Atkins' Circular .....50&10%
Atkins' Band, 2 to 14 in. width, 60&10%
Atkins' Ice Saws.....50&10%
Atkins' Cross Cut, regular patterns ..... 35&5%
Atkins' Handles for Cross Cut Saws 40%
Atkins' Wood Saws, complete 40&10%
Atkins' Saw Blades.....40&10%
Atkins' Saw Sets..... 40%

...itre Box and Back ... 40&5%
...kins' Butcher Saws, Nos. 1, 2, 5, 7 and 10 ... 50%
Atkins' Compass and Keyhole Saws, Nos. 2, 3 and 6 ... 40&5%
Atkins' Trowels ... 40&10%
Atkins' Butcher Saw Blades ... 5 X&10%
Atkins' Mulay, Mill and Drag Saws ... 5 X&10%
Atkins' Rip and Panel Saws ... 40%
Atkins' Cabinet Scrapers ... 40&5%
Atkins' Narrow Band Saws, ½ inch to 1¼ inch ... 5 X&10%
Disston Circular Solid and Inserted Tooth ... 50%
Disston Cross Cuts ... Net
Disston Narrow Cross Cuts ... Net
Disston, Muley, Mill and Drag ... 40%
Disston Framed Woodsaws ... 35%
Disston Woodsaw Blades ... 40%
Disston Woodsaw Rods ... 25%
Disston Handsaws, Nos. 12, 99, 9, 16, D100, D8, 120, 76, 77, 8 ... 25%
Disston Hand Saws, Nos. 7, 3 ... 30%
Disston Compass, Keyhole, etc. .. 25%
Disston B'tch'r Saws and Blades 35%

SAW FRAMES.

Common, plain ... per doz. $1 20
" painted ... " 1 60

SAW SETS.

Common Lever ... per doz. $ 1.20
Stillman's Lever ... per doz. 1.20
Leach's ... per doz. 5.00
Nash's ... per doz. 4.20
Monarch ... per doz. 6.50
Morrill's, Old Style ... per doz. 5.00
" No. 1 ... per doz. 7.25
" No. 3 & 4 X Cut. per doz. 11.50
" No. 11 ... per doz. 8.40
Aiken's Pattern ... per doz. 3.50

SAW FILERS.

Stearns' ... 25%
Silent saw ... 35%
Sargent's ... 60&30%
Reading ... 37½%

SAUSAGE STUFFERS AND PRESSES—ENTERPRISE.

No.	15	25	35
New list	$4.50	$5.50	$7.00

Discount 25%.

SCALES.

Union Family, 1 oz. by 240 lbs., ... each, $ 2.15
Common Platform, capacity 1000 lbs ... each, 10.50
No. 33, Turnbull's Patent Market ... each, 8.50
No 43, Turnbull's Patent Market ... each, 9.00

SCREWS.

BENCH AND HAND.

Bench, Iron ... per doz. 40%
Bench, Wood, Beech .. per doz. $3.50
Hand, Wood ... 20%

COACH, LAG AND HAND RAIL.

Coach and Lag, Gimlet Point. 70&10%
Hand Rail, list Jan. 1, 1871 ... 75%

JACK SCREWS.

Jack Screws ... 7

WOOD.

MANUFACTURERS' CIRCULAR PRICE. New List.

Flat Head Steel ... 90&10%
Round and Oval Head Steel .. 85&10%
Flat Head Brass ... 85&10%
Round and Oval Head Brass .. 80&15%
Flat Head Steel, Japanned ... 80&15%

SCOOPS.

No. 2 C. H. Conover's ... per doz. $9 50
No. 2 A. M. Graves' ... " 9 25
No. 2 Ajax ... " 8 75
Advance 25c per dozen for each larger size.
Ames' new list ... Discount 10%

SCYTHES.

Blood's ... $ 5 50
Clover ... 5 50
Grain Clipper, Blood's ... 10 50
Hollow Clip ... 5 50
Silver Clip ... 5 50
Honest Dutchman ... 5 50

SCYTHE STONES.

Black Diamond ... per gross, $7.75
La Moille ... " 7.00
Willoughby Lake ... " 6.35
Pikes Gen. No. 1 Ind. Pond ... " 4.75
Green Mountain ... " 4.25
Red End ... " 3.15

SHEARS.

	7	8	9 in.
Best	$16.00	$18.00	$20.00 gro.
Good	13.00	15.00	17.00 gro.
Cheap	5.00	6.00	7.00 gro.

Straight Trimmers, &c.:
Best Quality Jap ... 70@70&10%
" Nickel ... 60@60&10%
Fair Quality, Jap ... 80@80&5%
" Nickel ... 75@75&10%
Tailors' Shears ... 40@40&10%
Acme Cast Shears ... 40@40&5%
Heinisch's Tailors' Shears. 40@40&5%
Wilkinson's Hedge ... 50%
Wilkinson's Sheep ... 1900 list, 50%

NO. BBA. SHEEP SHEARS.

	6 in.	6½ in.	7 in.
Reg. Grip	$11.00	$11.35	$12.00 doz.
Nar. Grip	11.20	11.00	12.15 "

SHINGLES, METALLIC.

Eastlake I. C. Tin Shingles, painted, per sq ... $4.25
Eastlake I. C. Tin Shingles, galvanized, per square ... 6.00
Octagon Fluted I. C. Tin Shingles, painted, per square ... 5.50
Octagon Fluted I. C. Tin Shingles, galvanized, per square ... 7.25

SHOVELS AND SPADES.

Gold Hibbard's ... per doz. $11 00
C. H. Conover's ... " 10 00
Beckwith's ... " 10 00
Hickory ... " 9 00
Greenleaf's ... " 7 75
Columbus ... " 7 50
Ames' new list ... Discount 10%

COAL SHOVELS.

No. 2 Ajax ... per doz. $8 75
No. 2 Bear ... " 5 25
Ames' new list ... Discount 10%

SIEVES.

Champion ... per doz. $1.00
Hunters' Genuine ... per doz. 1.20
" Imitation ... per doz. 1.00
Tin Rim, 16 mesh plain wire " 1.40
Wood " 16 mesh plain wire " .85

SIFTERS.

Eclipse ... per gr. $15.00
Hunter's Genuine ... per gr. 16.00

SKATE SHARPENERS.

Skate Sharp., Eureka, pr dz. $2.00 net
Washer Cutters, Woodard's, per doz ... 2.50 net

SLATE.

GENUINE NO. 1 BANGOR.

24x14, 24x12, 12x8	$3.50 pr sq.	20x10, 18x10, 18x9, 16x8	$4.50 pr sq.
22x11, 20x12, 18x12, 16x12, 14x10, 14x8, 14x7	$3.75 pr sq.	16x10, 16x9	$4.25 pr sq.
		12x7, 12x6	$3.25 pr sq.

GENUINE NO. 1 BANGOR RIBBON.

24x14, 24x12	$3.00 pr sq.	20x10, 18x10	$3.50 pr sq.
22x11, 20x12, 18x12, 16x12, 14x8, 14x7	$3.25 pr sq.	18x9, 16x10, 16x8	

SLEDGES—HEAVY HAMMERS.

Sortnig, regular and Oregon pattern
Striking California Hand Drilling and Stone & Blacksmith Sledges,
Under 5 lb ... 75%
Over 5 lb ... 75@5%
Coal Miners' Sledges ... 75%
Single and Double Faced Mason's and Toothed Mason's, new list. 75%

SMOKED BEEF SHAVERS—ENTERPRISE.

New List, $8.00. Discount ... 25%

SNAPS.

German ... 40@40&10%
Covert Mfg. Co.:
Derby ... 35&2%
High Grade ... 45&2%
Jockey ... 40&2%
Trojan ... 45&2%
Yankee ... 35&2%
Yankee, Roller ... 30&2%
W. & E. T. Fitch Co.:
Bristol ... 40&%10
Empire ... 50&5%
German ... 40%
National ... 50&5%
Perfect ... 45%
Clipper ... 50&5%
Champion ... 40%
Security ... 40%
Victor ... 60&5%
Oneida Community:
Solid Steel ... 65@65&1%
Solid Swivel ... 65&10@65&10&10%
Sargent's Patent Guarded .. 66⅔&10%

SOLDERING FURNACES.

No. 3 Gems, tin reservoir ... $6.00
No. 6 Gems, copper reservoir ... 8.50
Gem Gas Pots ... 3.25
Clayton & Lambert No. 1 Fire-Pot ... 6.00
Clayton & Lambert's Special Fire-Pot ... 4.50

SPRINGS, DOOR.

Tar (Coil) list Oct. '95 ... net
Storrey's Rod, 39 in. ... per doz. $1.50@$1.62
Warner's No. 1 ... net 90

SQUARES.

Steel and Iron ... 70&10%
Nickel plated ... 70&10%
Try squares and bevels, Disston's ... 33⅓&10%
Bemis and Call, pocket ... 30%
Winterbottom's try & mitre ... 50%
Starrett's ... 25%
Stanley's Rosewood Handled, T., new list ... 40&10%

STAPLES.

Barbed Blind ... per lb., 9½&10c
Poultry Netting, per lb., 5c in 10 lb bxs

STAPLE PULLERS.

Russell Staple Pullers .. per doz., $8 75

STOVE PUTTY.

1, 10&25 pound Cans ... per lb., 5c
500 pound Kegs ... per lb., 4½c

STROPS.

RAZOR.

Emerson ... 60 to 60&5%
Imitation ... 20, 10&5%
Torrey's ... 20%
Tower & Lamont ... per doz $4 00
04 Combination ... per doz $3 75

TACKS.

List Jan. 15, '99.
Carpet Tacks, American ... 90&10%
American Cut Tacks ... 90%
Swedes Iron Tacks ... 90&20%
Swedes Upholsterers' Tacks .. 90&40%
Gimp Tacks ... 90&40%
Lace Tacks ... 90&20%
Trimmers' Tacks ... 90&20%
Looking Glass Tacks ... 70&10%
Bill Posters' & Railroad Tack 90&40%
Hungarian Nails ... 8¼
Common and Patent Brads ... 80&10%
Trunk and Clout Nails ... 80%

TRAPS.

GAME.

Oneida Pattern ... 75&5@75&10&5%
Newhouse ... 50%
Hawley & Norton ... 70%
New Victor ... 80%
Star (Blake Pattern) ... 65&10@70&5%

MOUSE AND RAT.

Mouse, Wood, Choker, doz. holes .. 10c
Mouse, Round or Square Wire, doz ... $0 85@1 00
American Pattern French Rat and Mouse Traps—
No. 1, Detroit Marty Pattern, per doz. $4 50; in ½ gro. lots per doz ... $4 00
No. 2, Detroit Marty Pattern, per doz. $3 25; in ½ gro. lots per doz ... $3 00
Detroit Marty Pattern Mouse per doz. $2 00; in ½ gro. lots per doz ... $1 75
Diamond Joe Mouse Traps, per doz ... 60c
Diamond Joe Rat Traps, per doz. $1 00
Marty French Rat and Mouse Traps. (Genuine:)
No. 1 Rat, per doz ... $13 50
No. 3, Rat, per doz. $6 00; case of 50 ... $6 50 doz.
No. 5, Mouse, per doz. $2 75, case of 72 ... $3 00 doz.
Schuyler's Rat Killer, No. 1 per gro. $30 00; No. 2, per gro. $30 00; Mouse, No. 3, $18 00 .. 50%

FLY.

Balloon, Globe or Acme ... doz. $1 15@1 25; gro ... $12 00
Harper, Champion or Paragon. doz. $1 25@1 40; gro ... $15 00

TWINE.

Flax Twine—

	BC	B
No. 9, ¼ and ½ lb. Balls	20c	24c
No. 12, ¼ and ½ lb. Balls	17c	20c
No. 18, ¼ and ½ lb. Balls	14c	17c
No. 24, ¼ and ½ lb. Balls	14c	17c
No. 36, ¼ and ½ lb. Balls	13c	16c

Chalk Line, Cotton, ½ lb. Balls. 18@20c
Cotton Wrap., 5 lb. Balls to lb 16 to 20c
2-Ply Hemp, 1½ lb. Balls (Spring Twine) ... 12@15c
3-Ply Hemp, 1 lb. Balls ... 12@15c
3-Ply Hemp, 1½ lb. Balls ...
2, 3, 4 and 5-Ply Jute, ½ lb. Balls .. 10c
Mason Line Linen, ½ lb. Balls ... 45c
No. 264 Mattress, ¼ and ½ lb. Balls ... 34c
Wool ... 5½@6c

TWINE BOXES.

No.	20	30	25	35	131
Dozen.	$1 35	$1 35	$2 65	$2 65	$3 50

VISES.

Solid boxes ... 50%
Parker's ... 20%
Howard's ... 35%
Bonney's ... 35%
Trenton ... 40%
Stearns' ... 50%
Cheney's ... 20%
Massey's ... 25%
Parallel ... 30&5%
Holland's ... 35%
Stevens' ... 25%
Miller's Falls ... 40%
Prentiss ... 20%

TROWELS.

Disston Brick and Pointing ... 31¼
Disston Plastering ... 25%
Disston "Standard Brand" and Garden Trowels ... 33⅓%
Never-Break Steel Garden Trowels ... gro. $7 00
Peace's Plastering ... 30%
Rose Brick and Plastering ... 20%
Woodrough & McParlin Pl'st'ing 20%

VISES.

Bonney's Standard & Champion. 30%

WASHERS.

LEATHER, AXLE.

Solid ... 80&10&10@85%
Patent ... 85&10@85&20%
Coil:

¾	1	1½	1¾ inch
16c	17c	20c	25c per 100

IRON OR STEEL.

Size bolt 5-16 ⅜ ½ ⅝ ¾
Washers $5 20 $4 30 $3 00 $2 80 $2 60
In lots less than one keg add ½c per lb; 5-lb boxes add ½c to list.

CAST WASHERS.

Over ¾ inch, barrel lots, per lb ... 1½@1¾

WASHING MACHINES—BOSS.

No. 1	No. 2	No. 5	No.
$4 75	$5 25	$5 75	$5 25

WASH TUBS.

Cedar tubs, No. 1, per doz ... $8 00
" " " 2, " ... 7 75
" " " 3, " ... 6 25
Galvanized tubs, No. 1, per doz. $5 75
" " " 2, " 6 25
" " " 3, " 7 00

WEDGES—WOOD CHOPPERS.

Lake Superior & Oregon Pattern, 75%
Falling ... 75%
Saw ... per lb 9c

WELL WHEELS.

8-in. $1 90 ... 10-in. $2 20
12-in. $3 00 ... 14-in. $5 50

WHEEL BARROWS.

Railroad Wheel Barrows, ball bearing ... per doz. $19 00

WINDOW GLASS.

First three brackets, single and double strength ... discount 90%
Above first three brackets, single and double strength .. discount 80%

WIRE AND WIRE GOODS.

Brt. and Ann., 6 to 9, 70&10@70&10&5%
Brt. and Ann., 10 to 18, 72½@72½&10%
Brt. and Ann., 19 to 26, 75&7½@75&10%
Brt. and Ann., 27 to 36 ... 75&10&5@75&10&7½%
Cop'd and Galv., 6 to 9 ... 70@70&10%
Cop'd and Galv., 10 to 18 ... 70&10@70&10&5%
Cop'd and Galv., 19 to 26 ... 75&7½@75&10%
Cop'd and Galv., 27 to 36 ... 75&10@75&10&5%
Tinned, 6 to 14 ... 75@75&5%
Tinned, 15 to 18 ... 70&5@70&10%
Tinned, 19 to 26 ... 70@70&5%
Tinned, 27 to 36 ... 65&10@70%
Annealed Wire on Spools ... 70&5@70&10%
Brass and Copper Wire on Spools ... 50%
Brass, list Feb. 26, '96 ... 15%
Copper, list Feb. 26, '96 ... 20%
Cast Steel Wire ... 50%
Stubs' Steel Wire, $6 00 to £ ... 40%
Bright Wire Goods ... 85%
Annealed Wire in Stones ... 70&5%
Brass Wire in Coils ... 15%
Copper Wire in Coils ... 20%
Brass and Copper Wire in Spools 50%

BRIGHT WIRE GOODS.

List April 1, 1901 ... 85%

WIRE CLOTH AND NETTING.

Galvanized Wire Netting ... 85%
Screen Wire Cloth, 12 mesh, painted ... per 100 sq. ft. $1 10
Light Hardware Grade:
2-8 Mesh, Plain (8c list) sq ft., full rolls ... 1⅞c
2-8 Mesh, Galv (8c list) sq ft., full rolls ... 2¾c
Poultry Netting ... 85%

WRENCHES.

Agricultural ... 70&10%
Case lots ... 75c%
Acme ... 60%
Baxter's S ... 60%
Bull Dog ... 70%
Coe's Genuine ... 40&10&0%
Coe's "Mechanic's" .. 40&10&10&5&5%
Alligator ... 60&10&10%
Bemis & Call's:
Adjustable S ... 35&5%
Adjustable S Pipe ... 40%
Briggs' Pattern ... 30&40%
Combination Black ... 40&5%
Combination Bright ... 40%
Cylinder or Gas Pipe ... 55%
Extra Heavy ... 45%
Merrick's Pattern ... 50%
No. 3 Pipe Bright ... 55%
Bindley Automatic ... 30%
Boardman's ... 33⅓%
Donohue's Engineer ... 40&10%
Eagle ... 50&10%
Gem Pocket ... 30%
Hercules ... 70%
Knife Handle, (Machinists' W. & B.) ... 40&10%
Case lots ... 50&5%
Less than case lots ... 6%
Improved Pipe (W. & B.) ... 50&10%
Solid Handles, P. S. & W ... 50&5%
Sovereign ... 100

WRINGERS.

CLOTHES WRINGERS.

Nos 22&110, guaranteed. pr doz $23 00
No. C 350, Novelty ... " 22 50
No. 3, Empress ... " 25 50
No. 150, Sunshine ... " 18 00
No. 130, Mendota ... " 18 00
No. 12, Success ... " 16 00
No. C 500, Royal ... " 28 00
Blue Bell, Ball Bearing " 25 00

Wants and Sales.

For yearly subscribers to THE AMERICAN ARTISAN will be inserted under this head advertisements of six lines WITHOUT CHARGE, for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES.

PATENTS HUBERT E. PECK, 623 F St., N. W., Washington, D. C. Consulting Expert in Patent Causes, U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Applications." Honest work but no "Something for Nothing" offers.

For Sale—Hardware store and tin shop, established 12 years, will invoice about $1,400.00. No trade. Address 921 Armitage avenue, Chicago, Ill. 17

Hardware stock for sale in southern part of South Dakota, doing a good business. Reason for selling is poor health. Would like to sell at once. Address Box P. H., care of The American Artisan, 69 Dearborn street, Chicago, Ill. 17

For Sale—Best hardware business (and still growing) in large suburban town, A splendid opportunity. Address M. H., care of The American Artisan, 69 Dearborn street, Chicago, Ill. 17

For Sale—Hardware, stove and general house furnishing business with tin shop in connection, in growing section of Chicago, $2,000. A first-class chance for a practical hardware man who also understands the tinners' trade. Low rent. Good reason for selling. Address "Low Rent," care of The American Artisan, 69 Dearborn street, Chicago, Ill. 17

Wanted—To trade for stock of hardware, 160-acre farm in Cedar Co., Mo.; 2½ miles from Eldorado Springs; well improved; price $40.00 per acre; $2,000.00 incumbrance. D. W. Mickey, Washington, Ia. 16

Wanted—A partner; a tinner with $1,000 to start in one of the best towns in Colorado. Address "Start," care of The American Artisan, 69 Dearborn st., Chicago, Ill. 16

For Sale—A fine clean stock of hardware, stoves, tinware, etc.; about $4,000; in one of the best business towns of Central Illinois; 3,000 population; good reasons for selling. Address "Padlock," care of The American Artisan, 69 Dearborn st., Chicago, Ill. 16

For Trade—160 acre farm, timber and marsh land, in Stark County, Ind., for stock of shelf hardware. Address L. M. Whisler & Sons, 106 E. 3d St., Marion, Ind. 16

For Sale—A good clean stock of hardware and implements. A splendid location. A good trade and paying business. Will sell with or without implements, and give you a quick deal. Address O. C. Hiatt, Summitville, Ind. 15

For Sale—A new, clean stock of hardware, stoves, etc., in a prosperous, fine city of one hundred and fifty thousand inhabitants; will invoice about six thousand dollars, doing a splendid paying business in fine location down town; have a good lease, etc. For particulars address "Good Opening," care The American Artisan, 69 Dearborn St., Chicago, Ill. 15

Wanted—All or a half interest in a first-class hardware; must have a good, profiable trade; have $10,000 to invest. Address "Box Invest," care The American Artisan, 69 Dearborn St., Chicago, Ill. 15

For Sale—My hardware and tin shop, doing a good business, in best town in Northwestern Ohio; population about 30,000. Stock, tools, etc., will invoice about $1,800. Good reasons for selling. Address "Booming City," care The American Artisan, 69 Dearborn St., Chicago, Ill. 15

A New and Up-to-Date Stock of Hardware and Stoves for Sale—Located in eastern Nebraska in a little city of 7,500 people. Large manfg. establishments. Doing profitable business; stock will invoice about $2,000, including fixtures. Address Fixtures, care the American Artisan, 69 Dearborn St., Chicago, Ill. 14

BUSINESS CHANCES.

Wanted—Location for hardware store; and anyone desiring a No. tinner for partner. Address "No. 41," care of The American Artisan, 69 Dearborn St., Chicago, Ill. 12

For Sale—Hardware stock, heating and plumbing business; stock will invoice about $4,500.00; located in one of best small towns in Central Illinois. Can be bought with or without building. Address "Illinois," care of The American Artisan, 69 Dearborn St., Chicago, Ill. 12

For Sale—A good hardware and harness stock; in a German Iowa town. Address "Iowa," care of The American Artisan, 69 Dearborn St., Chicago, Ill. 12

TINNERS' TOOLS.

Wanted—One secondhand 28 in. or 30 in. P. S. & W. tin folder at once. Box B 18, Monticello, Ia. 17

For Sale—Part of set of P. S. & W. tools. All in good condition. Address Box 84, Greene, Ia. 17

For Sale—One 10 ft. hand-power Robinson Cornice Brake; good as new. Address Fred T. Brosi Co., Quincy, Ill. 16

For Sale—One 10 ft. Robinson's latest Toggle joint power press with a complete set of corrugating V crimp and brick dies; also one Robinson 10 ft. hand brake. Continental Machine Co., Canton, O. 16

For Sale—A four-foot wide former for heavy work; also large punch. M. C. Moore, Prairie du Sac, Wis. 15

Wanted—A 38 or 40 inch tin folder, made of iron. Address D. C. McGraff, Hampshire, Ill. 15

For Sale—One Wright's sheet iron folder 30 in., one Gem gasoline fire pot. Both are in good condition, having been used but a short time. Address John H. Roberts, 241 Eighth avenue, West Homestead, Pa. 15

Wanted—To exchange an Olmenstead double seamer for a Hulbert's double seamer. Address Stricker & Son, Battle Creek, Mich. 15

HELP WANTED.

Wanted—Young man with 2 or more years' experience at tinners' trade and clerking. To such a man we can offer a good position. German preferred. Box B 18, Monticello, Ia. 17

Wanted Tinner—A good, reliable, sober man, that is not afraid of any work, and can take charge of shop can have a steady job to work for good people. Can start at once. Young married German preferred. Apply to G. T. Mueller, Columbus, Wis. 17

Wanted—Experienced stove mounter for an "open-shop" near Chicago. Address "Stove Mounter," care of The American Artisan, 69 Dearborn street, Chicago, Ill. 17

A Manager Wanted—A man as manager of a stove concern who has full knowledge of moulding, mounting, nickel plating and general finishing of stoves, cast and steel. Must be a man of experience and executive ability to manage men and get work out to an advantage. State experience, age, reference and salary expected. None but a sober and industrious man will be considered. Globe Steel Range Co., Kokomo, Ind. 17

A first-class tinner and furnace man, who understands how to figure on furnace work and clerk in store if desired, is wanted at once. Must be sober and give good references and state wages desired. Address L. J. Eneboe, Woonsocket, S. D. 17

Wanted—A good tinner for all-around work. One that can clerk in store, will pay good wages for the right kind of a man. Scott & Lilley, Ireton, Ia. 17

Wanted—Clerk in general hardware store. State what branch of the business you have been employed in mostly. How long in hardware business altogether. What wages do you want? Address "General," care of The American Artisan, 69 Dearborn street, Chicago, Ill. 17

Wanted—At once, a first-class tinsmith, one who understands pumps, furnaces, plumbing and country work generally; state wages wanted and give references; a steady job for the right man; must be energetic and strictly sober. Address S, care of The American Artisan, 69 Dearborn street, Chicago, Ill. 17

Wanted—Tinner; state time employed in the trade and wages wanted. Address Box E. L., care of The American Artisan, 69 Dearborn street, Chicago, Ill. 17

Want to correspond with wide-awake hardware man, one who has had retail experience in city and at book preferred. This is a good opportunity for the right man. Good salary and steady. In Chicago. Confidential. E. L. Sommers, 7105 S. Chicago avenue, Chicago, Ill. 17

Wanted—A reliable tinner who understands the furnace, wind mill and pump business; German preferred; good steady job. For further information address R. R. Craig, Wellman, Ia. 16

Wanted—A first-class all-around tin and sheet iron worker; one who is competent to do furnace work and fit up bath rooms, etc.; must be temperate and industrious; steady job by the year by the right man. Beyer & Dexter, Cambria, Wis. 16

Wanted—Stove salesman of experience for Illinois, Iowa and Wisconsin; state former employer and amount of sales. Address "Amount," care of The American Artisan, 69 Dearborn st., Chicago, Ill. 16

Wanted—A competent press man to run drop press, and one capable of remelting dies, etc. Milwaukee Corrugating Co., Milwaukee, Wis. 16

Wanted—Good tinner, not over 30 years old, understanding all branches of the work; steady work to the right party, every day in the year; wages $2.00 per day. J. H. Jones, 414 E. Main st., Streator, Ill. 16

Wanted—A good all-round tinner; one that understands furnace and can do some plumbing; steady job; give wages expected; we have a fine healthy shop. Geo. F. Renwick & Son, Marengo, Ill. 16

Wanted—A good sober man for tinner; one who can do furnace work and sheet iron metal work; must be able to do all kinds of shop work; steady job for the right man all the year round; pay good wages; can go to work at once. J. K. Schick, Fairbury Ill. 16

Wanted—At once, a tinner who can do all kinds of work; married man preferred; steady job to right man. H. C. Hobbs, Pontiac, Ill. 16

Tinners Wanted—All inside work, steady time and good wages. Address The Arras Cream Separator Co., Bluffton, O. 16

Wanted—A good all-around tinner and hot air furnace man; steady job the year around for that kind of man; good wages; strictly sober married man preferred. Address Chris. Eckhart, 721 E. Second, Alton, Ill. 16

Wanted—A good tinner and furnace man and one who is able to clerk in the store when desired. A permanent place to the right man. Give references and wages desired. Address Hunter Bros., Cando, N. D. 15

Wanted—At once, tinner; must have some knowledge of plumbing and furnace work. Steady job for a good workman; must be sober or need not apply. Ullery & Jones, Gibson City, Ill. 15

Tinner wanted in country shop; a steady man; one who can do pump work and repair bicycles preferred. W. F. Goldspohn, Arlington, Wis. 14

SITUATIONS WANTED.

Wanted—First-class tinner wants position in state of Washington. Jas. Hansen, Fond du Lac, Wis. 17

Situation Wanted—By first-class mechanic, 20 years' experience at tinning, plumbing, steam, hot water and hot air heating. Address Box 333, Hillsboro, Ill. 17

Wanted—Situation as salesman or manager of stove foundry by first-class man of twenty-six years' experience; good references; understands his business thoroughly and has been manager for some time. Box No. 469, P. O., Louisville, Ky. 16

Situation Wanted—By young man of three years' experience at tinner's trade. Desires a position as second man in some large shop where he has an opportunity to learn more of the trade. Address Roy Walker, Gibson City, Ill. 16

Wanted—Engagement by May 1st with a stove and range manufacturing company or tin and iron house, by a salesman of experience and large acquaintance in Iowa, Missouri and the West. Address L, care of American Artisan, Chicago, Ill. 15

SITUATIONS WANTED.

I am a good all around man at the tinner trade; would like a job at once. I have had eight years' experience and am a single man aged 27. Would like a job in town of 1,500, Wisconsin preferred. Address "Box A. R.," care of The American Artisan, 69 Dearborn St., Chicago, Ill. 1

SPECIAL NOTICES.

FOR SALE.

Owing to having other interests in the manufacturing line, will sell Hardware, Stove, Furnace, Mantle and Jobbing Business at a very reasonable price and on very reasonable terms. We installed 83 furnaces last season and 35 mantels.

Battle Creek is a city of 25,000 inhabitants, and there are at present 63 new houses in the course of construction here, and prospects of over 300 being built this year. For further particulars address

The United States Register Co.,
61-63 State St., E. Battle Creek, Mich.

FOR SALE.

Stamping Works, Building, Presses, Dies, Die Makers' Machinery, etc., etc. Principal manufacture is patent specialty. Patents 1888 and 1901. Good trade is established in the United States and Export. Unlimited demand. Or will accept an active partner from $5,000 up. Box 54, Buffalo, N. Y.

FOR SALE—Hardware business, $10,000 to $11,000, can reduce to less. Trade well established and profitable. Located in large mfg. city of 40,000 in central southern N.Y., on 4 trunk line R. Rs. An excellent opening for wholesale and retail business. Address, "Hardware Business," The American Artisan, 69 Dearborn St., Chicago, Ills. 17

SECOND-HAND Wrought Iron Pipe, sizes 1 to 8 inches, for sale cheap. Manufacturers and dealers in steam and gas engines, boilers, tanks, oil-well supplies, etc.

E. R. YOUNG & SONS,
Titusville, Pa.

Branch Office: 511 Washington Street, Marion, Ind.

FOR SALE.

A $3,500 stock of Hardware, Farming Machinery, Buggies, etc. Stock is strictly up-to-date and doing good business. Will sell part cash and part on time to responsible party. Address "Part," care of The American Artisan, 69 Dearborn St., Chicago, Ill. 16

WANTED.

Man capable of taking charge of stove plate moulding shop. Address Box Shop, care of The American Artisan, 69 Dearborn Street, Chicago, Ill.

MACHINIST AND TINNER

Who can each command $1,000 can hear of a good opportunity for investment in a big paying manufacturing concern by addressing, "Good Investment," care The American Artisan, 69 Dearborn St., Chicago, Illinois.

WANTED!

Cornice Maker, one who can estimate and lay out work. Good position to right man.

Illinois Roofing & Supply Co.,
23 Lake St., Chicago, Ill.

WANTED.

Tinners to increase their means by soliciting subscriptions for THE AMERICAN ARTISAN. Liberal commission. Write for particulars to THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 23

THE MAN WHO SELLS STOVES

should lose no time in becoming acquainted with

DIXON'S GRAPHITE CEMENT

It is the most effective article in existence for the repairing of firebrick in stoves and furnaces. We will send you sample and prices free for the asking

Joseph Dixon Crucible Co., Jersey City, N. J.

SPECIAL NOTICES.

Orlan Clyde Cullen

COUNSELOR-AT-LAW U. S. SUPREME COURT
REGISTERED ATTORNEY U. S. PATENT OFFICE

U. S. and Foreign Patents

Trade Marks and Copyrights

700 Seventh St., N. W., WASHINGTON, D. C.

Do You Want Your Own Hardware or Cutlery Building?

Tenant can name my new modern up-to-date building, 12 Elm Street, near Duane Street, New York, five stories, electric elevators, well lighted. A good permanent tenant can secure a bargain. Address the owner John T. McRoy, 302 Broadway, N. Y.

MONTAGUE COHEN
39 PARADISE ST., LIVERPOOL, ENGLAND

Can accept the agency for a few lines of American manufacture in British Isles and Continental Europe. Will give prompt attention to same. Can furnish references. 16

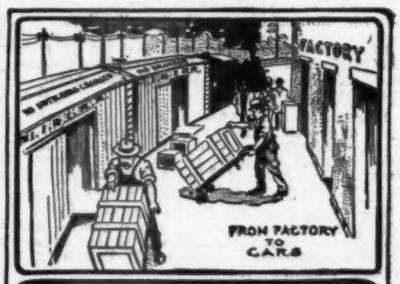
The Sheet Metal Workers' Assistant.

For Zinc, Sheet Iron, Copper and Tinplate Workers, etc., containing a selection of Geometrical Problems; also, Practical and Simple Rules for describing the various patterns required in the different branches of the above trades. By Reuben H. Warn. Illustrated by 32 plates and 37 wood engravings. $3.00.

For Sale by

DANIEL STERN,
69 Dearborn Street
CHICAGO.

Crying to do business without advertising is like winking at a girl in the dark; you know what you are doing but nobody else does.



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are paid out of the profits of a business. Stockholders expect dividends. Economic management creates profits. Shippers and manufacturers can pay larger dividends by being located on

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They give a whiter, stronger, steadier light than the electric arc. Operate easily, safely, satisfactorily. Save money—actual 600 Candle Power at a cost of one-half cent an hour. Think of it!

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Also send in Architects' Details for Estimates.

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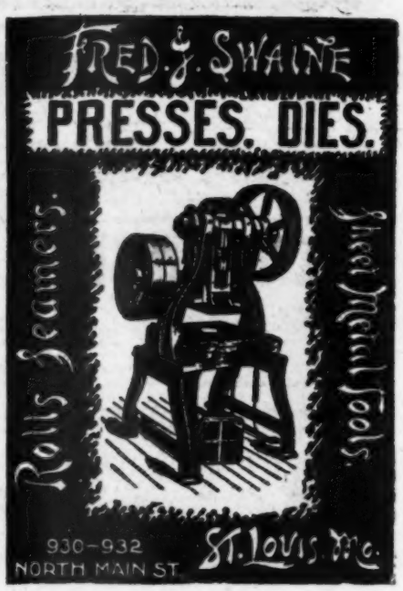

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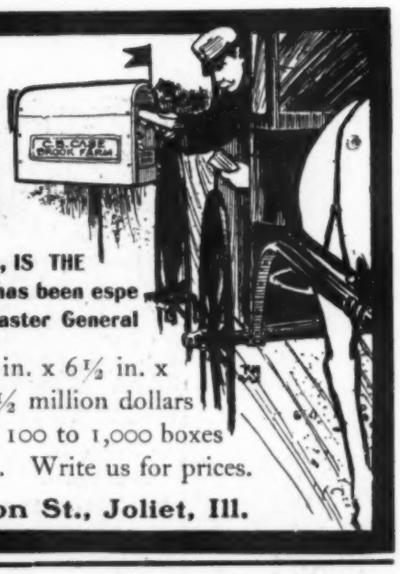

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The Blunt Nose is so shaped as to insure perfection of work and perfect freedom from destruction of garments from snags, etc., as so often is the case with sharp pointed irons.

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Manufacturing is rapidly developing along the lines of the Chicago, Milwaukee & St. Paul Railway. Industries on a large scale now extend to the Mississippi River with indications of reaching the Missouri. Machinery and all the higher classes of manufactured goods are now being exported from this business territory to all parts of the world.

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(burned in the enamel) ARE SAFE

We claim Purity and Safety, and Substantiate this claim with Chemists' Certificates.

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Look for this Label (Sustained by U.S. Circuit Court.) Printed on BLUE PAPER and pasted on every Kitchen Utensil made in Genuine AGATE NICKEL-STEEL WARE as a guarantee of Absolute PURITY and SAFETY

NAME OF UTENSIL.

AGATE L & G Mfg. Co. NICKEL-STEEL-WARE

NO.

Patented Feb. 12, 1895.

COST	SELL

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We have made a careful examination of a sample of "Agate Nickel Steel Ware" received from The Lalance & Grosjean Mfg. Co., Nov. 30, 1896.
The enamel coating is homogeneous, of extra thickness, and great purity.
It is *entirely free from arsenic, lead and antimony*—metals so often found in enameled goods.
Very respectfully,
STILLWELL & GLADDING,
Chemists to the New York Produce Exchange.

{ Pierre de P. Ricketts, E.M., Ph.D.
{ John H. Banks, E.M., Ph.D.
Analysis No. 14,180. New York, May 5, 1897.
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RICKETTS & BANKS,
Chemists to the N. Y. Metal Exchange.

Guaranteed Double Coated and Absolutely Pure
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Read carefully the Chemists' Certificates.

Send for pamphlet sent to be issued. Lalance & Grosjean Mfg. Co.
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Patent Improved
POST HOLE AND WELL AUGER
For Post Holes and Wells.
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Received Highest Award World's Columbian Exposition, 1893 for convenience and effectiveness in operation, excellence of material and construction.
There are other augers on the market, claimed to be as good as the "Iwan" Auger. THEY ARE NOT; BEWARE OF THEM. The "Iwan" is the standard of excellence.
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UNPARALLELED NIGHT SERVICE. NEW STEAMERS
"CITY OF BUFFALO"
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Cleveland	8 P.M.	Buffalo	6:30 A.M.
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Leave Buffalo 8 A.M. Arrive Cleveland 6 P.M.
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ORCHESTRA ACCOMPANIES EACH STEAMER

Connections made at Buffalo with trains for all Eastern and Canadian points, at Cleveland for Toledo, Detroit and all points West and Southwest.

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Chicago to { Indianapolis, Cincinnati, Louisville, the South and Southeast

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The Goodform Trousers Hanger, Patented, the Best Article of the Kind. Sold either in Sets or Singly.

This shows the Men's Set. We will show you the Ladies' Set if you ask.

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Write for Prices and Discounts.

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Two Sizes

Send for Folder No. 25.

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Made in Pearl and Stag. No. 8250.

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Made by the only manufacturers in the United States who hand-forge their Pocket Knives and Razors.

OLD HONESTY

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Downer's Grove, Ill.
30 minutes west of Chicago, C., B. & Q. R'y. suburban trains.
Western Office and Warerooms.
Case Bros. Cutlery Co.

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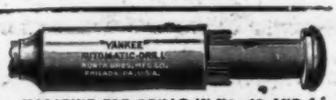
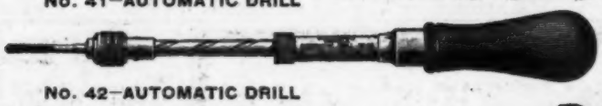


MAGAZINE FOR DRILLS IN No. 40 AND 41

No. 40—AUTOMATIC DRILL, WITH RATCHET MOVEMENT

No. 41—AUTOMATIC DRILL



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Sold by Leading Jobbers. Send for "Yankee" Tool Book.

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MANUFACTURERS OF

The Original Improved Brammer Washer.
The Original O. I. C. Pendulum Washer.
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With Gold And Copper Bronzed Hoops And Castings.

WE LEAD. Others imitate. The superiority of our Washers is too well known, and dealers will not be misled by similar machines.

Quotations and particulars will be sent on request.

Jay Commons, Aurora, Mo., writes:—"Please take out my advertisement. It has been entirely satisfactory."

This Lock is always on guard.

You can't forget to lock it.
It locks itself.
Windows open for ventilation are still locked securely.
The Burglar's "Jimmy" can't force this Lock.
Better than a Policeman, in is there all the time.

It never sleeps. But you can.

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THE PHILADELPHIA LAWN MOWER CO.
3107, 3109 Chestnut Street,
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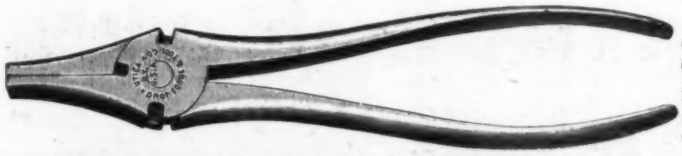
Send for Illustrated Catalogue.

The Mower

That will Kill all the Weeds in your Lawns. If you keep the weeds cut so they do not go to seed, and cut your grass without breaking the small feeders

of roots, the grass will become thick and weeds will disappear. The Clipper will do it.
Send for catalogue and prices.

Clipper Lawn Mower Co.
(INCORPORATED.) Norristown, Pa



have used the finest grade of steel in its manufacturer.

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ASK YOUR DEALER FOR THESE GOODS

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IMPROVED CARPENTERS' TOOLS Sold by All Hardware Dealers
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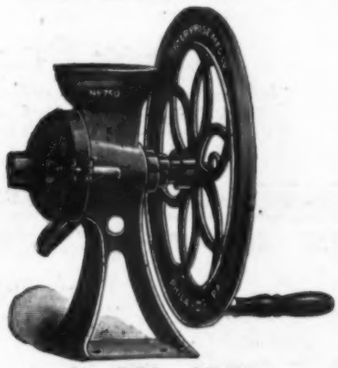

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Order from your Jobber

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the Triumph Adjustable Stove Pipes are taking the lead.

Because they are easy to put up.
Because they are easy to take down.
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Because they save freight.
Because they need no wiring to hold them together.
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ELM & FRONT STS.
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MANUFACTURERS

Steam Heat and Open Fires.

French Lick Springs

In the Indiana Highlands on the

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Hotels Open all the Year Round.
Two Trains Daily from Chicago.
Through Sleeper from Dearborn Station, 9 p. m.
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Don't Be Handicapped By Big Light Bills!

Let a "Doran" Light System solve the light question for you. It guarantees, lamp for lamp, a light more brilliant, more steady, more penetrating than the electric arc at just about one-tenth the cost.

1,200 Candle power. White, soft, diffusive light and absolutely safe. Air pressure gasoline tank situated outside the building; connection with the lamps made by seamless wire tubing. As many lamps in a system as desired. Light can be turned up or down at will.

"Doran" Lights are inexpensive to install and cost little to maintain. Efficient, economical, satisfactory. Let us send you catalog.

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WE WANT AGENTS for "Doran" Lights, also for the "M. & M." Portable Arc Lamps (600 Candle Power). Exclusive territory allowed.

THE SURPRISE CREAM SEPARATOR.

Pat. Applied For.

The milk is not mixed with the water. Skimmed milk not diluted with water is worth money to the farmer.

Write for prices and secure agency.

Every Separator Guaranteed.

Made of best heavy tinplate and is durable.

SEITHER & CHERRY CO.,
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The Jersey Cream Separator

takes less than an hour to separate cream from milk. It is beyond a doubt the most simple, practical and reliable separator made. It is sold only to the trade. Prices will be furnished on application.

The Galesburg Cornice Wks.,
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Standard Chain Company.
Chain of all Kinds.
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Greig Brothers, Mitchell, Iowa, write: — "Please discontinue our ad for Tinner, we have had applications from Ohio to Northern Wis."

THE ARRAS CREAM SEPARATOR.

Separates cream from milk thoroughly without dilution and no machinery. The most convenient device for handling milk, winter and summer, on the market.

A Sure Seller, sold only to one dealer in each town.

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Star Cream Separator

is a paying specialty for hardware dealers to handle. It is already in use by 80,000 butter makers, who testify that it is the best and cheapest device ever used for the complete separation of cream from milk

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Satisfaction Guaranteed.

Lawrence Mfg. Co. TOLEDO OHIO

Please address Dept. C.

Standard Self-Melting, Self-Sealing Wax Strings

Is the very best Sealing Wax made for all kinds of fruit cans.

Very adhesive and economical.

For price to the trade, address the sole manufacturers' agent,

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through its Land and Industrial Department invite prospectors, investors, manufacturers and homeseekers to investigate propositions in all lines.

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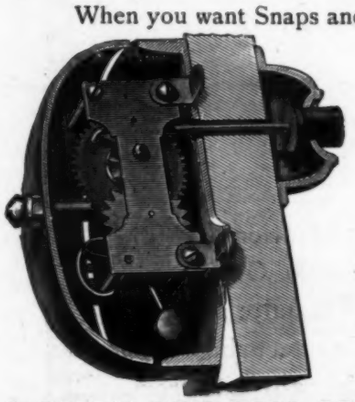
Job Stocks of Hardware

When you want Snaps and Leaders consult us. We are headquarters for Jobs in all lines.



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We bought 5,000 of them at manufacturers' sale. They are malleable iron. Length, closed, 9 inches. This cut speaks for itself, and shows the various different purposes to which this wrench can be put—monkey wrench, hexagon end, round in the center, and hammer head. It is made of 3 pieces, and is a thoroughly practical and indispensable tool.

Per Dozen, 75 cents.

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THE "NEW IDEA" PADLOCK.

Made in malleable and gray iron, finished in bronze enamels.

Equal in point of strength and general utility to the most high priced padlocks.

Owing to the peculiar shape of the key and key-hole channel, the "New Idea" Padlock is practically proof against being operated without its corresponding number key. Size of "New Idea" Padlock, 2¼ inches in diameter, ⅝ inches thick. Twelve combinations to the dozen. Attractively put up in ½ dozen boxes, 1 and 2 gross cases. Its worth is positive and instantly recognized at a glance. It is of wonderful strength, the key enters the lock in a circle, rendering "picking" impossible; is of small size and attractive appearance.

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Chicago House Wrecking Co.

West 35th and Iron Sts., CHICAGO.

We Are Not In The Trust

We have no connection with any other "Rogers" Company, and guarantee our silver ware to strip as much silver as any "Rogers Brand" on the market.

Puritan Oyster Fork.

Send For Our New Catalogue.

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Factories: Hartford and Wallingford, Conn.

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CUT a very decisive factor in hardware quotations. Mill prices are one thing and prices f. o. b. Omaha, or Kansas City, or St. Paul, or St. Louis are quite another matter. We were very fortunate last year in securing low freight rates owing to the rate-cutting war of the railroads from eastern points to Omaha, and consequently are in a position to offer superior inducements to our customers. You don't know how much you are losing through an ignorance of our terms, which it only takes you a postal to secure.

The Lee-Glass-Andreesen Hardware Co.,
Omaha, Neb.

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Peters Cartridges

"What Kind of Shells Did you ship me last?"

"Clerk, what shells did you ship our old friend, Mr. Merchant, last week?"

"Shipped him the **'Peters League.'** The boys all liked them so well I was sure they would suit him."

"Sorry, Mr. Merchant, if we did not send what you wanted, but I'll guarantee you will find them all right. Are selling lots of them—none better."

"Hold on, there, Mr. Jobber, you needn't be sorry; but you will be if you ever send me anything but **Peters 'League'** shells hereafter. Why, I have sold them all out already, and the boys won't have any others. Can you ship me more today? Now, mind you, NOTHING BUT PETERS will go in our town."

Handy Book for Shooters and Sportsmen sent free to all applicants.

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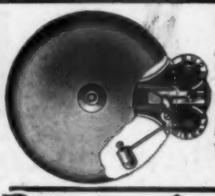
Peters Cartridges

Peters Cartridges



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All Cases Guaranteed.

For Sale by all the Leading Jobbers in Hardware.

Send for Catalogue and Price List.

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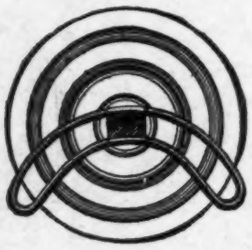
Common Sense Flue Stop

Excels in every point for Simplicity, Durability and Ease of Adjustment. Absolutely soot-proof. A perfect flue stop.

J. K. Schick, Fairbury, Ill.

THE Peerless Flue Stopper



Steel wire springs instead of sheet iron stays.
Stays where you put it, and is absolutely soot and smoke proof.
Made either plain or decorated.
Send for miniature sample and prices.

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Something New	Keystone Boiler Handle	Every One Guaranteed
The Highest in Quality		Write * for * Price
Send for Free Sample	Berger Bros. Co. 237 ARCH ST., PHILADELPHIA.	2 Styles: Round, Square

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TWELVE SIZES ALWAYS IN STOCK.

Gray's Perfect

Any tinner or cornice man, with a brake and a set of Perfect Skylight Patterns and chart, can make a **Hip Cable or Single Pitch Skylight.**

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Powers Automatic Chimney Top.

Nearly every building has one poor chimney, that POWERS TOP with a smoke-stack could be put on and make good up draft, work for tinner, profit and new business for the dealer. Tinners are fast finding that by advertising and explaining how wind blowing pa t our cover chimney c restes a suction increases draft; that new trade without limit comes to tinners who advertise our automatic chimney top.

PATENTED BY
POWERS BROS.
Streator, Ill., Sole Makers.

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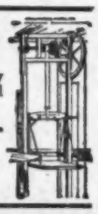

Improved, Quick and Easy Rising Steam and Hand Power.

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Advertising is the root of all money

The Builder may save a few dollars on an operation that would have given twice as much roof satisfaction by using Cortright Metal Roofing, but he's not in anything if that man ever has another house to build.

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Magic Pattern Rule

Will lay out patterns for any size and angle of elbows in three minutes' time. Can also be used as Straight-edge Rule, Circumference Rule and Trammell. Should be in every Tinshop. Will save its cost in a few weeks. Thousands are in use and every one giving excellent satisfaction. Price, complete in a nice wooden box with Chart, $4.00 net cash. (Mention THE AMERICAN ARTISAN.)

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Don't Be Deceived but insist on

McClure's Genuine Charcoal Iron Redipped Roofing Tin.

McCLURE & CO.,
Manufacturers of Tin Plate.

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THE "CENTENNIAL" Rain-Water Cut-Off

The strongest, most durable, and cheapest CUT-OFF on the market.

The only single Cut-Off made to fit CORRUGATED and Plain Pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers. Patent applied for.

Manufactured only by

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ROOFING SLATE

Slate Blackboards. Write for delivered prices.

Just a Little Higher

in price, but so much

Higher in Quality

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They can recommend them with clear conscience. Write for catalog.

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Roofing Plates

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(Iron Base, not Steel)
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CARRIED IN STOCK AND SHIPPED PROMPTLY FROM THE MILL.

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Warehouses on Big Four R. R.

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FIRE ARMS

TO THE DEALER:

If you are an Up-to-Date hardware merchant you of course handle FIRE ARMS.

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If not you should at once order a line for your Spring Trade as the demand for our ARMS is growing steadily.

They are POPULAR because RELIABLE.

Our RIFLE CONTEST will create great interest among young people and you should be prepared to supply the demand.

We make a large and varied line of

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YOUR JOBBER CAN SUPPLY YOU.
SEND FOR OUR CATALOG.

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The "Globe" Ventilator

In Brass, Copper, Galvanized Iron and with Glass Tops for Skylight purposes.

For Perfectly Ventilating

Schools, Churches, Halls, Mills, Factories and Audience Rooms of Every Character.

Smoky Chimneys Cured.

"Globe" Ventilated Ridges. Send for Pamphlet.

Manufactured by
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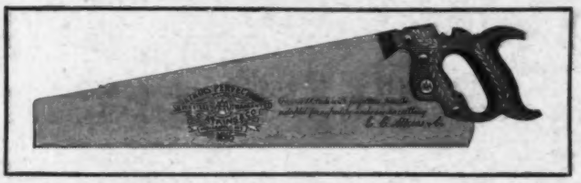
IS A POSITIVE ANTIDOTE FOR STAGNATION IN TRADE.



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They realize that the BEST is the cheapest.
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